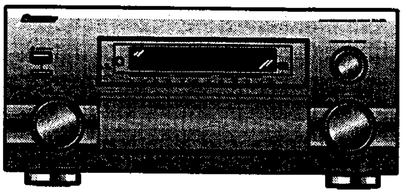
Pioneer sound.vision.soul

Service Manual



ORDER NO.
RRV2523

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-49TX

VSX-47TX

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	Remarks
	VSX-49TX	VSX-47TX		
KU/CA	○	○	AC120V	

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T – ZZR OCT. 2001

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

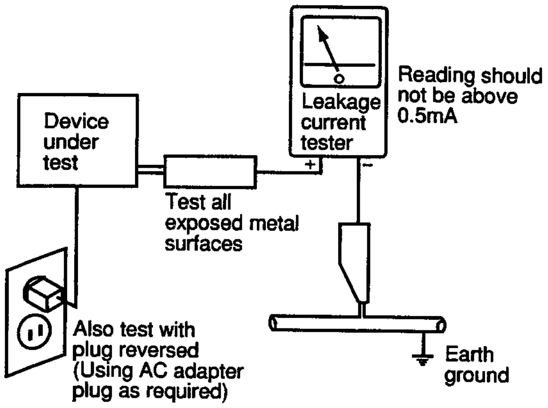
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
Reading should not be above 0.5mA
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Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a △ on the schematics and on the parts list in this Service Manual.

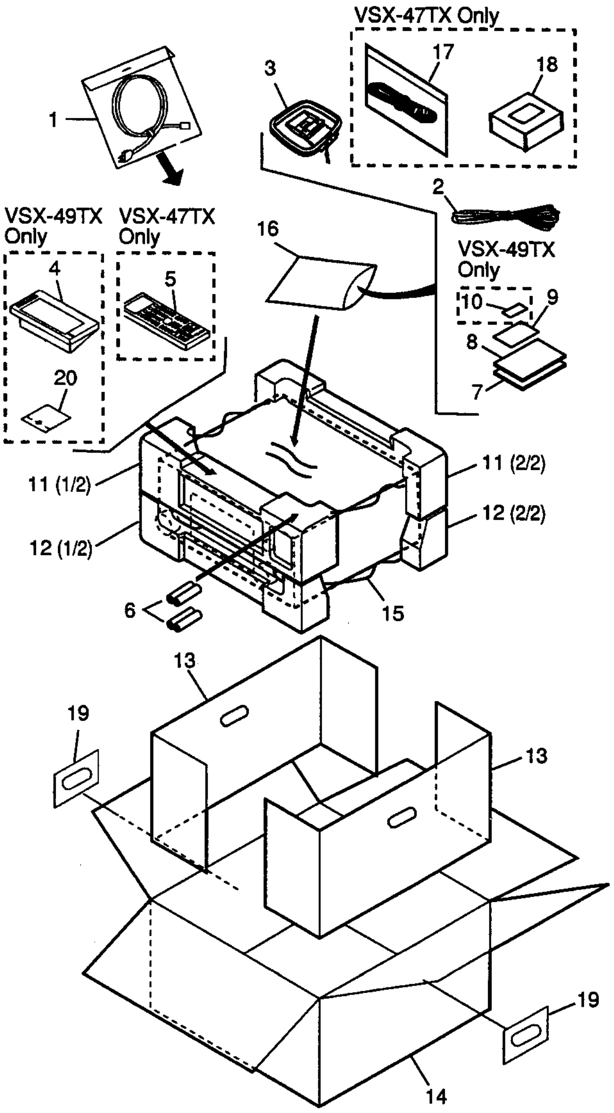
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

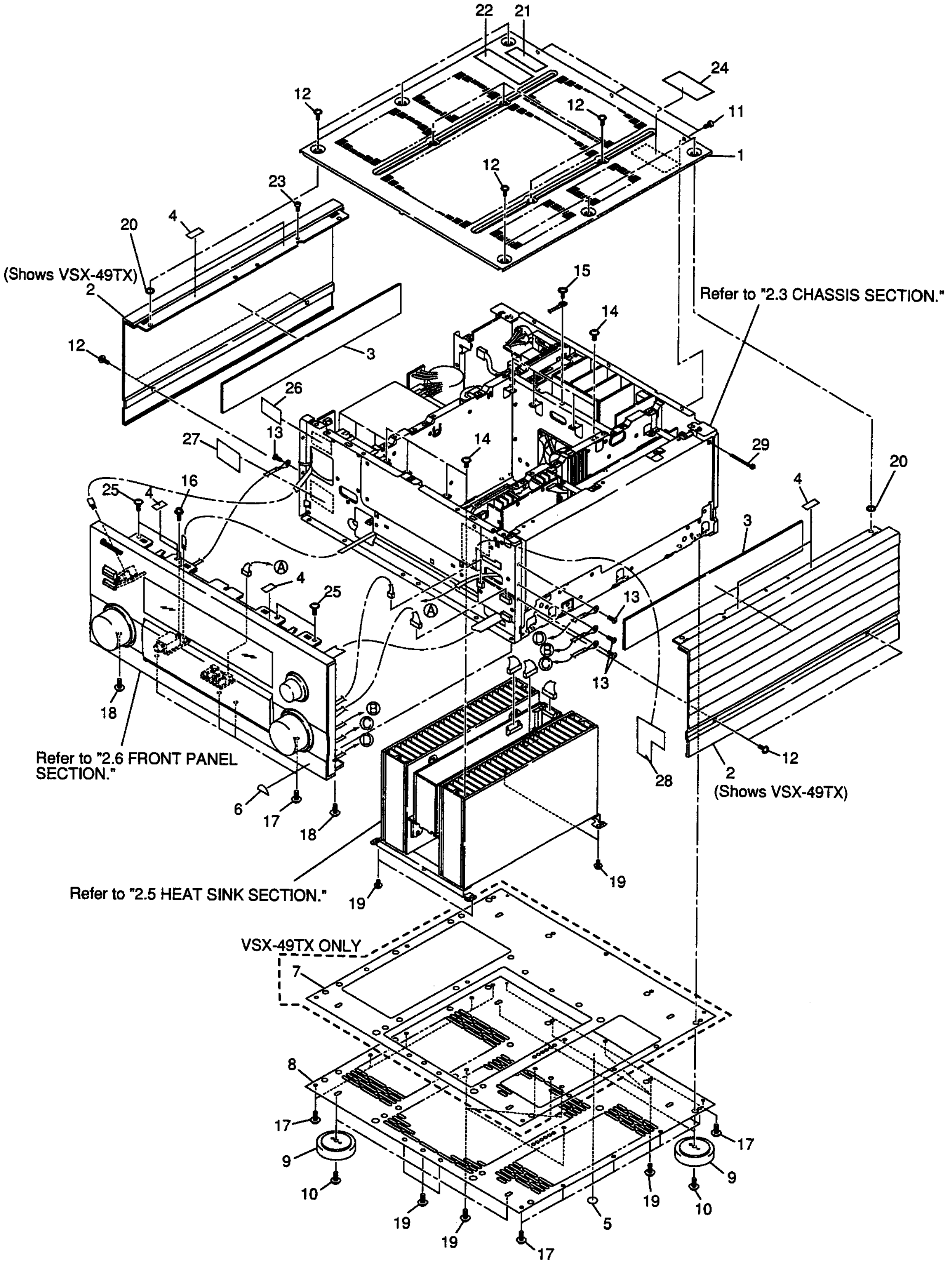
Mark	No.	Description	Part No.
⚠	1	Power Cord	ADG7052
	2	FM Wire Antenna	ADH7010
	3	AM Loop Antenna	ATB7009
	4	Remote Control Unit AX10KU	See Contrast table (2)
	5	Remote Control Unit 47TXKU	See Contrast table (2)
	6	Alkaline Dry Cell Battery (LR6, AA)	VEM1021(2pcs.)
	7	Operating Instructions (English)	See Contrast table (2)
	8	Caution Sheet SP, E	ARM7056
NSP	9	Warranty Card EL	ARY1026
	10	Cushion for Remote	See Contrast table (2)
	11	Top Pad	AHA7362
	12	Bottom Pad	AHA7363
	13	Spacer	AHB7057
	14	Packing Case	See Contrast table (2)
	15	Packing Sheet	DHL1022
NSP	16	Polyethylene Bag (0.03 × 230 × 340)	Z21-038
	17	Remote Control Cable	See Contrast table (2)
	18	Remote Control Stand	See Contrast table (2)
	19	Handle Cover	AHX7034
	20	Microphone	See Contrast table (2)

(2) CONTRAST TABLE

VSX-49TX/KU/CA and VSX-47TX/KU/CA constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-49TX/KU/CA	VSX-47TX/KU/CA	
	4	Remote Control Unit AX10KU	AXD7295	Not used	
	5	Remote Control Unit 47TX/KU	Not used	AXD7299	
	7	Operating Instruction (English)	ARB7249	ARB7250	
	10	Cushion for Remote	AXG7080	Not used	
	14	Packing Case	AHD8029	AHD8028	
	17	Remote Control Cable	Not used	ADE7083	
	18	Remote Control Stand	Not used	AEB7243	
	20	Microphone	APM7001	Not used	

2.2 EXTERIOR SECTION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Refer to "2.3 CHASSIS SECTION."
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Refer to "2.6 FRONT PANEL SECTION."
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Refer to "2.5 HEAT SINK SECTION."
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VSX-49TX ONLY
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(1) EXTERIOR SECTION PARTS LIST

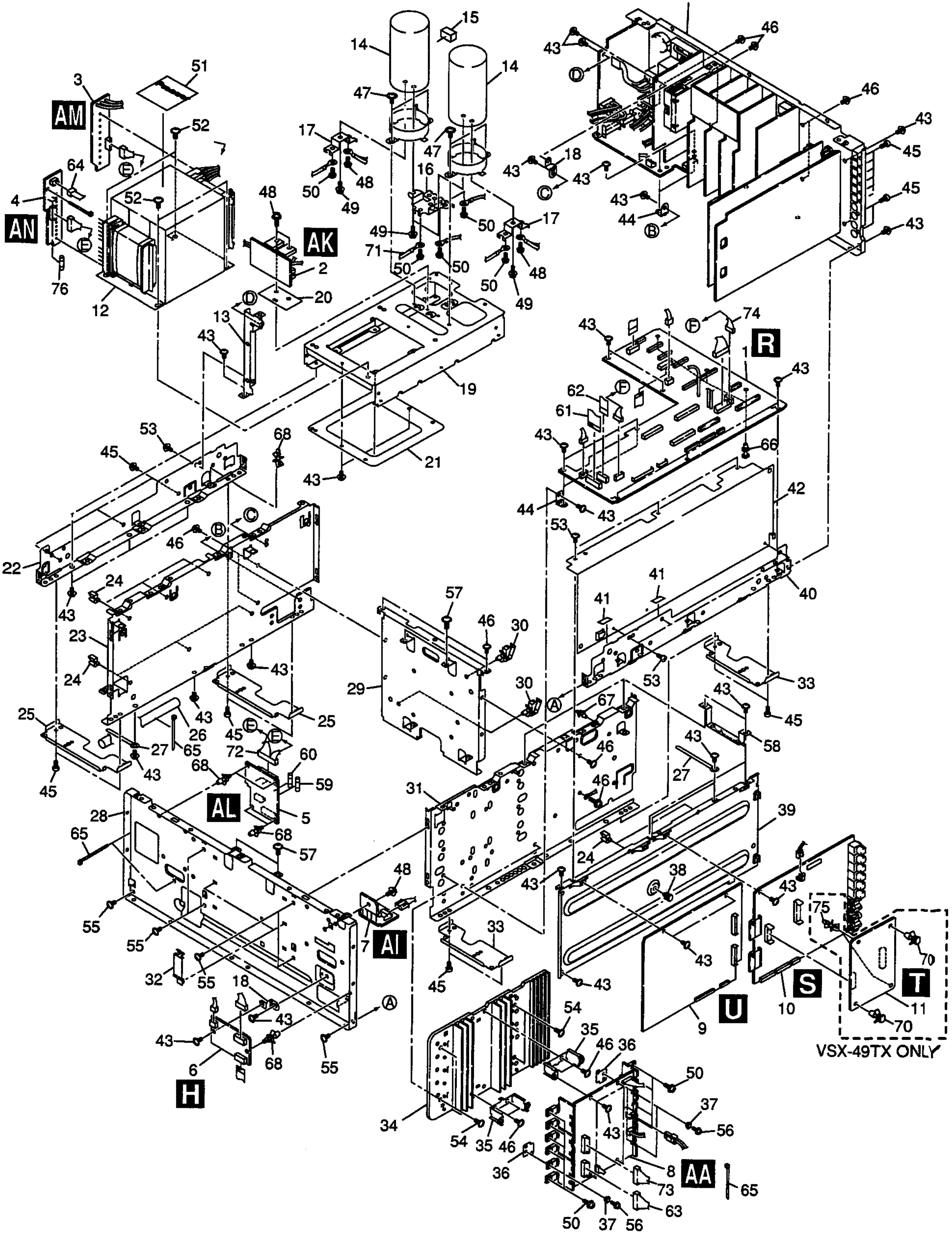
Mark	No.	Description	Part No.
NSP	1	Top Plate BK	ANE7282
	2	Side Alum BK	See Contrast table (2)
	2	Side Plate BK	See Contrast table (2)
NSP	3	Side Panel Sheet	See Contrast table (2)
NSP	3	Side Panel Sheet S	See Contrast table (2)
NSP	4	Tape	See Contrast table (2)
	5	UL Caution Card	AAX-313
NSP	6	Energy Star Label	AAX7876
NSP	7	Bottom Plate B	See Contrast table (2)
NSP	8	Bottom Plate A	ANF7029
	9	Insulator Assy	See Contrast table (2)
	9	Insulator	See Contrast table (2)
	10	Screw	ABA1054
	11	Screw	BBT30P060FCC
	12	Screw	FBT40P080FZK
	13	Screw	ABA7079
	14	Screw	RBA1099
	15	Screw	VBA1056
	16	Screw	ABA1011
	17	Screw	ABA1050
	18	Screw	ABA1193
	19	Screw	IBZ30P090FCC
	20	Washer	See Contrast table (2)
	21	Coution Label	See Contrast table (2)
	22	DTS License Label	See Contrast table (2)
	23	Screw	BBZ30P080FCC
	24	65 Label	ARW7050
	25	Screw	BBT30P100FCC
	26	ICP Coution Label	ARW7151
	27	FUSE Coution Label	VRW-548
	28	ICP Coution Label	ARW7150
	29	Binder	ZCA-BK1

(2) CONTRAST TABLE

VSX-49TX/KU/CA and VSX-47TX/KU/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-49TX/KU/CA	VSX-47TX/KU/CA	
	2	Side Alum BK	AAH7081	Not used	
	2	Side Plate BK	Not used	ANE7279	
NSP	3	Side Panel Sheet	AMR7284	Not used	
NSP	3	Side panel Sheet S	Not used	AMR7384	
NSP	4	Tape	PNM1249	Not used	
NSP	7	Bottom Plate B	ANF7030	Not used	
	9	Insulator Assy	VXA2368	Not used	
	9	Insulator	Not used	PNW2766	
	20	Washer	Not used	ABE7008	
	21	Caution Label	ARW7036	Not used	
	22	DTS License Label	ARW7148	Not used	

2.3 CHASSIS SECTION



Refer to "2.4 REAR PANEL SECTION".

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(1) CHASSIS SECTION PARTS LIST

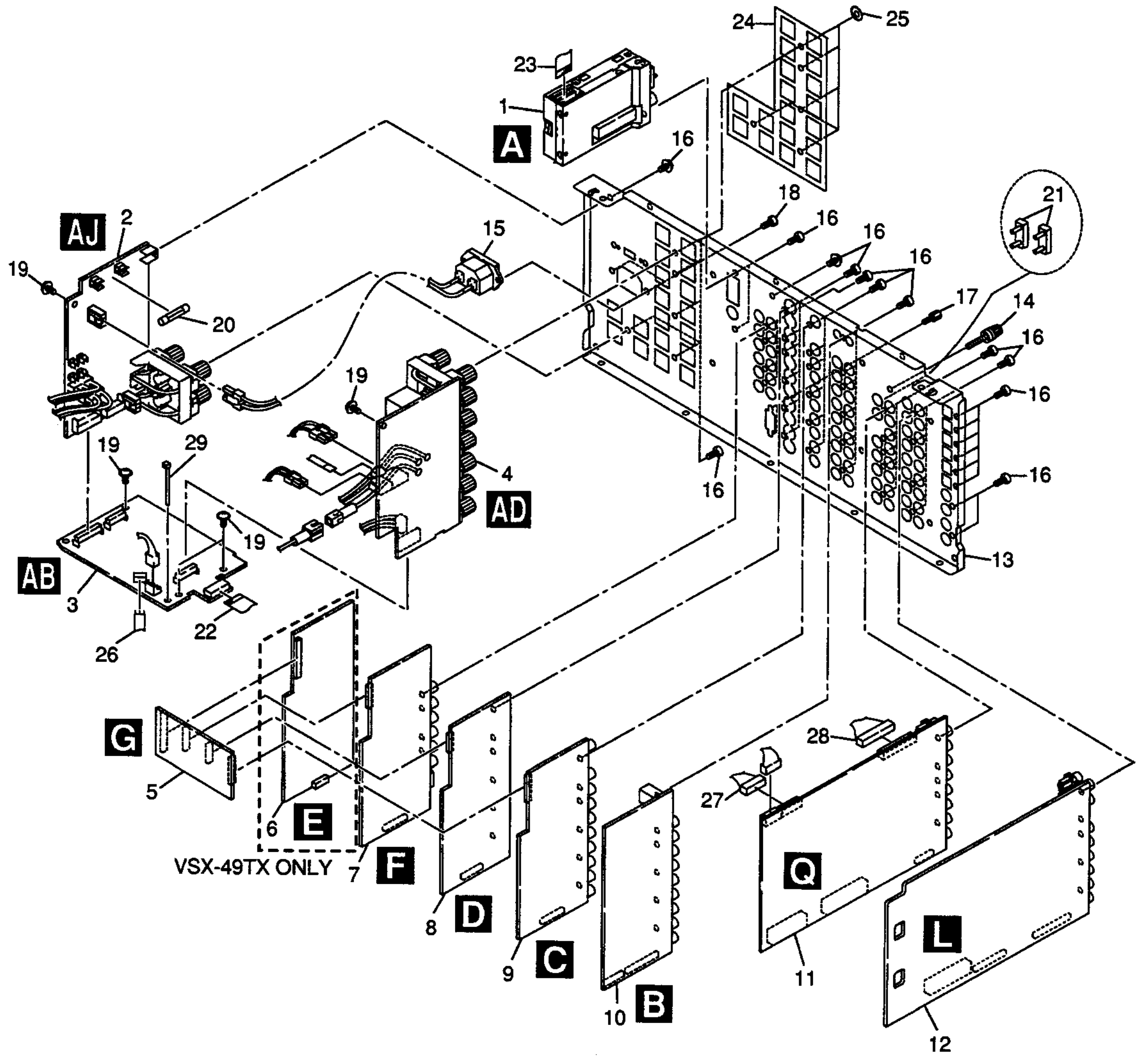
Mark	No.	Description	Part No.
	1	MOTHER Assy	See Contrast tabel (2)
	2	DIODE Assy	AWX7841
	3	TRANS (A) Assy	AWX7838
	4	TRANS (B) Assy	AWX8057
	5	FUSE Assy	AWX7843
	6	MIC AMP Assy	AWX7872
	7	DSP DIODE Assy	AWX7958
	8	LOCAL SUPPLY Assy	AWX7887
	9	DAC10 Assy	See Contrast table (2)
	9	DAC8 Assy	See Contrast table (2)
	10	DSP Assy	See Contrast table (2)
	11	DSP3 Assy	See Contrast table (2)
⚠	12	Power Transformer (T1)	ATS7320
NSP	13	PCB Holder B	ANG7388
	14	Capacitor (C1, C2)	ACH7164
	15	Rubber Spacer	AEB7244
NSP	16	Earth Plate	ANG7381
NSP	17	Joint Plate	ANG7382
NSP	18	PCB Base	RNE1849
	19	Trans Frame	ANA7137
	20	Sheet	AEE7043
NSP	21	Trans Stabilizer	ANG7378
NSP	22	Side Frame L	See Contrast table (2)
NSP	23	Side Wall L	See Contrast table (2)
NSP	24	Wire Clip (A)	VEC1355
NSP	25	Insulator Frame B	ANG7377
	26	Glass Tube	ADN7006
	27	Cord Holder	RNH1005
	28	Panel Stay	See Contrast table (2)
NSP	29	Fan Holder B	See Contrast table (2)
NSP	30	Wire Saddle	DEC1450
NSP	31	Side Wall R	See Contrast table (2)
NSP	32	Flat Cable Clamp	AEC7376
NSP	33	Insulator Frame A	ANG7376
	34	Sub Heat Sink	ANH7154
NSP	35	PCB Holder D	ANG7392
	36	Mica Sheet S	AEE7042
	37	Bushing 26	AEC7128
NSP	38	PCB Spacer	AEC7156
NSP	39	Shield Case A	See Contrast table (2)
NSP	40	Side Frame R	See Contrast table (2)
NSP	41	Tape	PNM1249
NSP	42	Shield Case B	See Contrast table (2)
	43	Screw	ABA1011
NSP	44	PCB Holder C	ANG7389
	45	Screw	BBZ30P080FCC
	46	Screw	IBP30P090FCC
	47	Screw	VBA1056
	48	Screw	ABA1082
	49	Screw	BMH40P080FMC
	50	Screw	ABA7076
	51	Trans Label	AAX7897
	52	Screw	ABA1014
	53	Screw	BBT30P060FCC
	54	Screw	ABA1050
	55	Screw	ABA1192
	56	Screw	ABA7084
	57	Screw	RBA1099
NSP	58	PCB Frame B	ANG7386
⚠	59	Fuse (FU4, 4A)	VEK1023
⚠	60	Fuse (FU5-FU8, 2A)	VEK1019
	61	J29 FFC (17P) (MOTHER CN5807 – DISPLAY CN3001)	ADD7329
	62	J30 FFC (11P) (MOTHER CN5806 – MIC AMP CN3207)	ADD7337
	63	J16 8P Connector Assy (LOCAL SUPPLY CN4001 – FUSE CN1802)	ADX7379
	64	J17 3P Connector Assy (LOCAL SUPPLY CN4002 – TRANS(B) CN1701)	ADX7380
	65	Binder	ZCA-BK1
	66	Card Spacer	REC1156
	67	PCB Holder	PNW2100
	68	Locking Card Spacer	VEC2234
	69	Screw	ABA7017
	70	PC Support	DEC1772
	71	Oval head Terminal wire	ADX7366
	72	J1601 5P,7P Parallel wire	ADX7385
	73	J5805 9P Connector Assy (Local Supply CN4004–Mother CN5805)	ADX7378
	74	5802 Crimp Connector Assy (Mother CN5827–Mother CN5828)	PF06PP-R27
	75	PCB Spacer	VEC1508
⚠	76	Fuse (FU9-FU10, 1A)	VEK1014

(2) CONTRAST TABLE

VSX-49TX/KU/CA and VSX-47TX/KU/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-49TX/KU/CA	VSX-47TX/KU/CA	
	1	MOTHER Assy	AWX7890	AWX7891	
	9	DAC10 Assy	AWK7725	Not used	
	9	DAC8 Assy	Not used	AWK7726	
	10	DSP Assy	AWK7719	AWK7720	
	11	DSP3 Assy	AWK7727	Not used	
NSP	22	Side Frame L	ANA7133	ANA7134	
NSP	23	Side Wall L	AND7041	AND7042	
	28	Panel Stay	AND7045	AND7046	
NSP	29	Fan Holder	ANG7373	ANG7374	
NSP	31	Side Wall R	AND7043	AND7044	
NSP	39	Shield Case A	ANK7093	ANK7094	
NSP	40	Side Frame R	ANA7135	ANA7136	
NSP	42	Shield Case B	ANK7095	ANK7096	

2.4 REAR PANEL SECTION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(1) REAR PANEL SECTION PARTS LIST

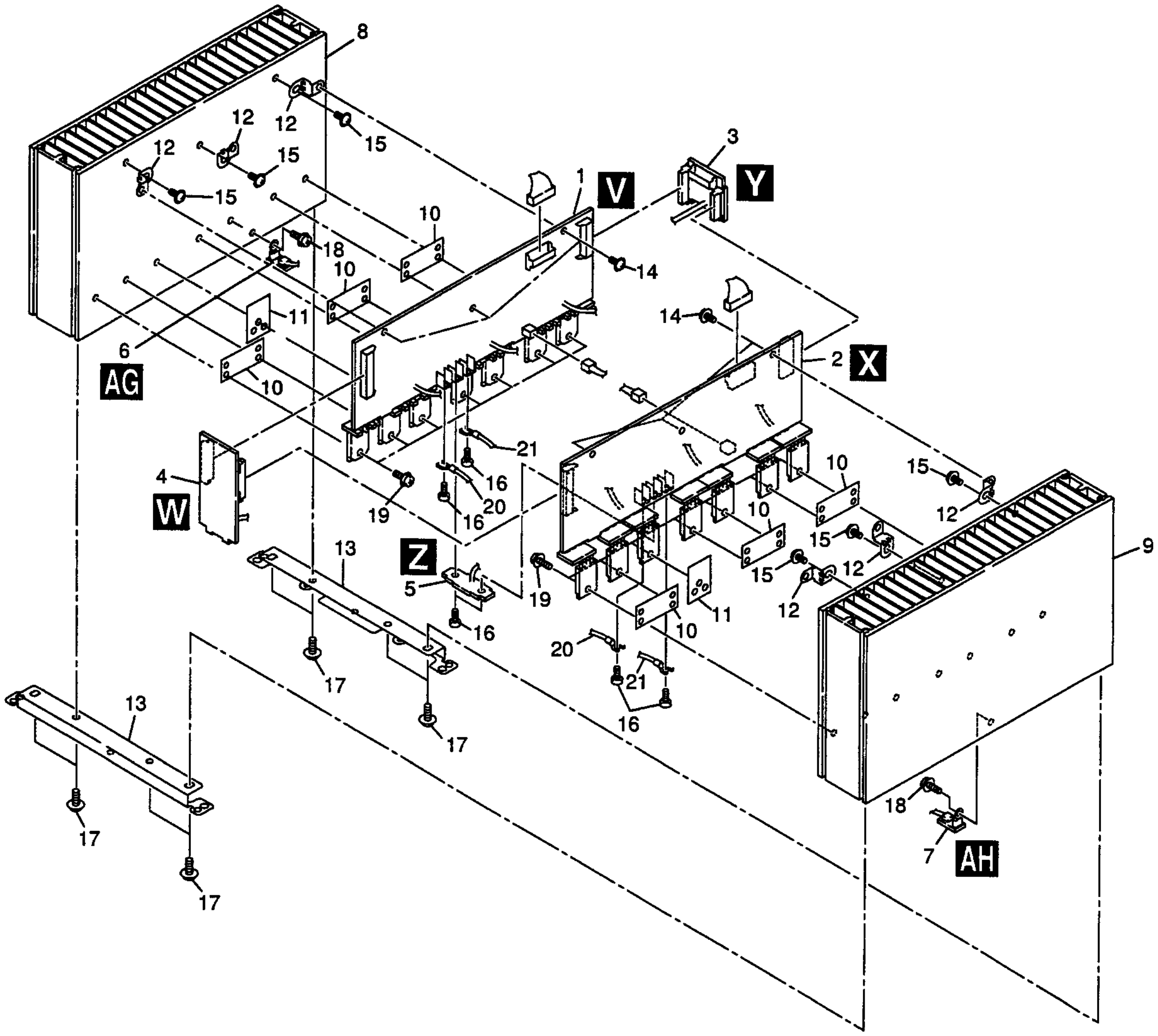
Mark	No.	Description	Part No.
	1	FM/AM TUNER Module	AXQ7237
	2	SP (B) Assy	AWX7852
	3	AC PRIMARY Assy	AWX7834
	4	SP (A) Assy	AWX7848
	5	VIDEO CONNECT Assy	See Contrast table (2)
	6	V-CONVERT Assy	See Contrast table (2)
	7	COMPONENT Assy	See Contrast table (2)
	8	S-VIDEO Assy	See Contrast table (2)
	9	COMPOSITE Assy	See Contrast table (2)
	10	AV I/O Assy	See Contrast table (2)
	11	VR & PRE OUT Assy	See Contrast table (2)
	12	ANALOG IN & A/D Assy	See Contrast table (2)
	13	Rear Panel	See Contrast table (2)
	14	Screw with Terminal	AKE-031
	15	AC Inlet Assy	VKP2251
	16	Screw	BBZ30P080FCC
	17	Hexagonal Screw	ABA7078
	18	Screw	ABA1193
	19	Screw	ABA1011
⚠	20	Fuse (FU1, 12A/125V)	AEK-306
	21	Short Pin Plug	AKM7005
	22	J23 FFC (14P) (SP(A) CN1104 – MOTHER CN5801)	ADD7334
	23	J22 FFC (13P) (TUNER CN2705 – MOTHER CN5802)	ADD7333
	24	Speaker Sheet 49	AAK7959
	25	Cushion Circle	AED7052
	26	Jamper Wire 3P (AC Primary CN1105 – Power SW CN1301)	D20PYY0365E
	27	J5001 8P Connector Assy (VR&PRE OUT CN5005 – Power AMP(BR) CN4811)	ADX7382
	28	J5002 14P Connector Assy (VR&PRE OUT CN5006 – Power AMP(L) CN4801 and Power AMP(R) CN4802)	ADX7381
	29	Binder	ZCA-BK1

(2) CONTRAST TABLE

VSX-49TX/KU/CA and VSX-47TX/KU/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-49TX/KU/CA	VSX-47TX/KU/CA	
	5	VIDEO CONNECT Assy	AWX7876	AWX7877	
	6	V-CONVERT Assy	AWX7952	Not used	
	7	COMPONENT Assy	AWX7953	AWX7954	
	8	S-VIDEO Assy	AWX7948	AWX7949	
	9	COMPOSITE Assy	AWX7942	AWX7943	
	10	AV I/O Assy	AWX7938	AWX7939	
	11	VR & PRE OUT Assy	AWX7888	AWX7917	
	12	ANALOG IN & A/D Assy	AWX7878	AWX7879	
	13	Rear Panel	ANC8036	ANC8035	

2.5 HEAT SINK SECTION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• HEAT SINK SECTION PARTS LIST

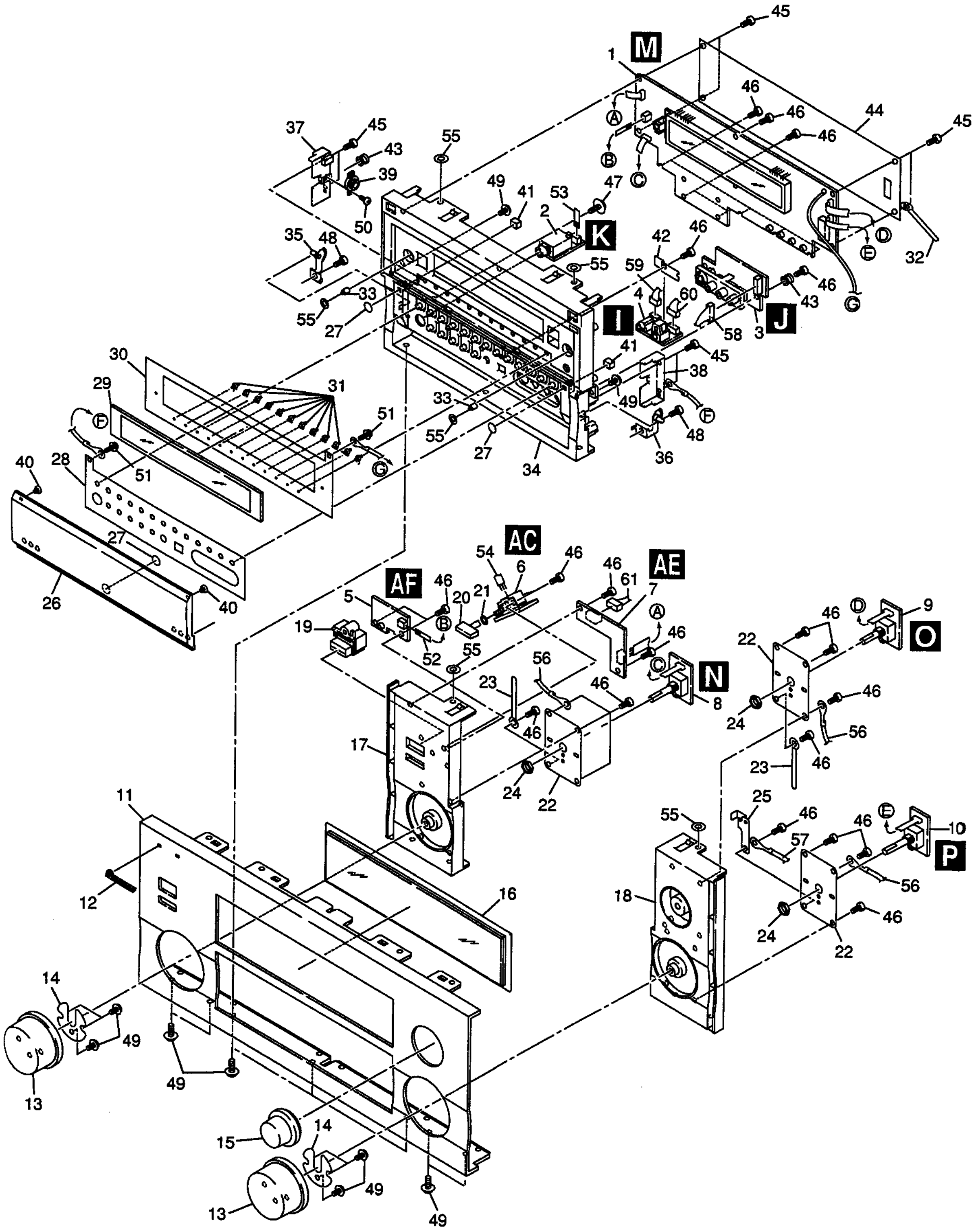
Mark	No.	Description	Part No.
	1	POWER AMP (L) Assy	AWX7882
	2	POWER AMP (R) Assy	AWX7883
	3	POWER AMP (BR) Assy	AWX7885
	4	POWER AMP (C) Assy	AWX7884
	5	POWER AMP (G) Assy	AWX7886
	6	POSISTER (L) Assy	AWX7844
	7	POSISTER (R) Assy	AWX7846
	8	Heat Sink L	See Contrast table (2)
	9	Heat Sink R	See Contrast table (2)
	10	Mica Sheet L	AEE7045
	11	Mica Sheet M	AEE7046
NSP	12	PCB Holder A	ANG7387
NSP	13	Heat Sink Holder	ANG7375
	14	Screw	ABA1011
	15	Screw	IBP30P090FCC
	16	Screw	BMZ30P060FCU
	17	Screw	RBA1099
	18	Screw	ABA7076
	19	Screw	ABA7083
	20	Over head Terminal wire(RED)	ADX7383
	21	Over head Terminal wire(BLUE)	ADX7384

(2) CONTRAST TABLE

VSX-49TX/KU/CA and VSX-47TX/KU/CA are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-49TX/KU/CA	VSX-47TX/KU/CA	
	8	Heat Sink L	ANH7155	ANH7148	
	9	Heat Sink R	ANH7156	ANB7149	

2.6 FRONT PANEL SECTION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(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY Assy	See Contrast table (2)
	2	HEADPHONE Assy	AWX7874
	3	FRONT A/V Assy	AWX7902
	4	MIC & OPT Assy	AWX7875
	5	STANDBY Assy	AWX7901
	6	POWER SW Assy	AWX7840
	7	FL SUPPLY Assy	AWX7871
	8	INPUT SEL Assy	AWX7868
	9	MULTI JOG Assy	AWX7869
	10	VOL Assy	AWX7870
	11	Front Panel	See Contrast table (2)
	12	Pioneer Badge	PAN1376
	13	Rotary Knob L BK	AAA7018
	14	Plate	ANG7198
	15	Rotary Knob S BK	AAA7015
	16	Display Panel	AAK7932
	17	Panel Base L BK	AMB7788
	18	Panel Base R BK	AMB7791
	19	Power Button	AAD7440
	20	Power Button M	AAD7442
	21	Washer	ABF7008
NSP	22	VR Stabilizer	ANG7383
	23	Cord Holder	RNH1005
	24	Nut	NK90FCU
NSP	25	Earth Spring	ABK7031
	26	Door Panel BK	ANB7273
NSP	27	Door Cushion BK	AED7051
	28	Door Plate	AAH7077
	29	FL Lens	AAK7934
	30	Inner Panel	See Contrast table (2)
	31	LED Lens	AAK7931
	32	Cord Clamper	RNH-184
	33	LED Lens	PNW2019
	34	Panel Base C BK	AMB7785
NSP	35	Door Hinge L	ANG7379
NSP	36	Door Hinge R	ANG7380
	37	Door Holder L	AMR7373
	38	Door Holder R	AMR7374
	39	Damper Assy	AXA7108
	40	Screw	ABA7074
	41	Magnet	AMF7004
NSP	42	Input Holder	ANG7384
NSP	43	Earth Spring	ABH7208
	44	Shield Plate D	AMR7390
	45	Screw	BBZ30P100FZK
	46	Screw	BBZ30P080FCC
	47	Screw	ABA7053
	48	Screw	BBT30P060FCC
	49	Screw	ABA1050
	50	Screw	BBZ20P060FMC
	51	Screw	ABA7076
	52	J33 FFC (3P) (DISPLAY CN3002 – STANDBY CN1903)	ADD7331
	53	J35 FFC (4P) (SP(A) CN1206 – HEADPHONE CN3203)	ADD7332
	54	J1101 Parallel Wire 3P (POWER SW CN1301 – AC PRIMARY CN1105)	D20PYY0365E
	55	Fiber Washer	VEC1254
NSP	56	Earth Metal Fitting	DE007VC0
NSP	57	Earth Metal Fitting	DE012VF0
	58	J32 8P Connector Assy (Front A/V CN3204 – MIC AMP CN3206)	ADX7390
	59	J99 4P Connector Assy (MIC & OPT CN3202 – MIC AMP CN3205)	ADX7387
	60	J31 5P Connector Assy (MIC & OPT CN3201 – Mother CN5804)	ADX7386
	61	J1801 4P Connector Assy (FL Supply CN1901 – FUSE CN1803)	ADX7377

(2) CONTRAST TABLE

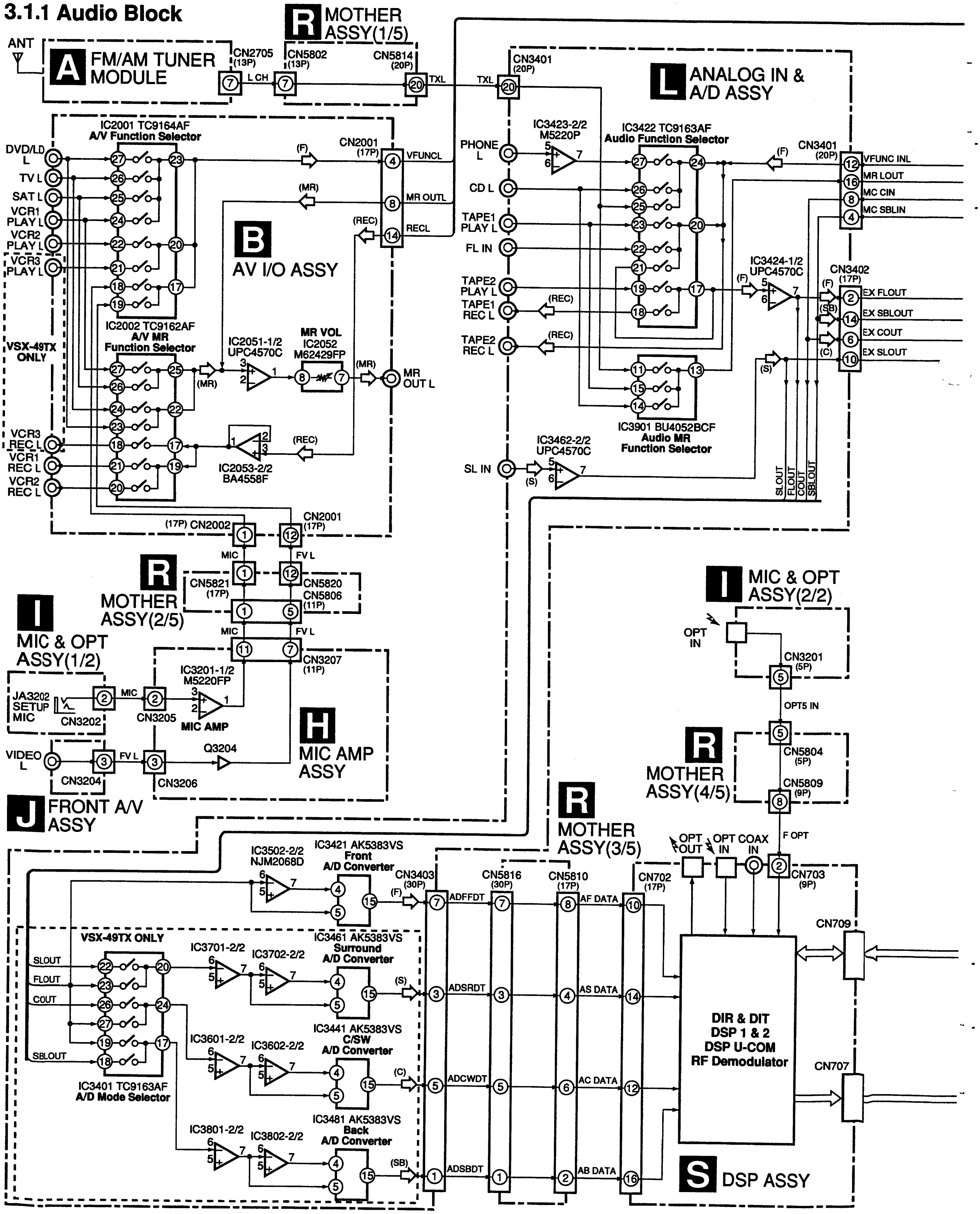
VSX-49TX/KU/CA and VSX-47TX/KU/CA are constructed the same except for the following :

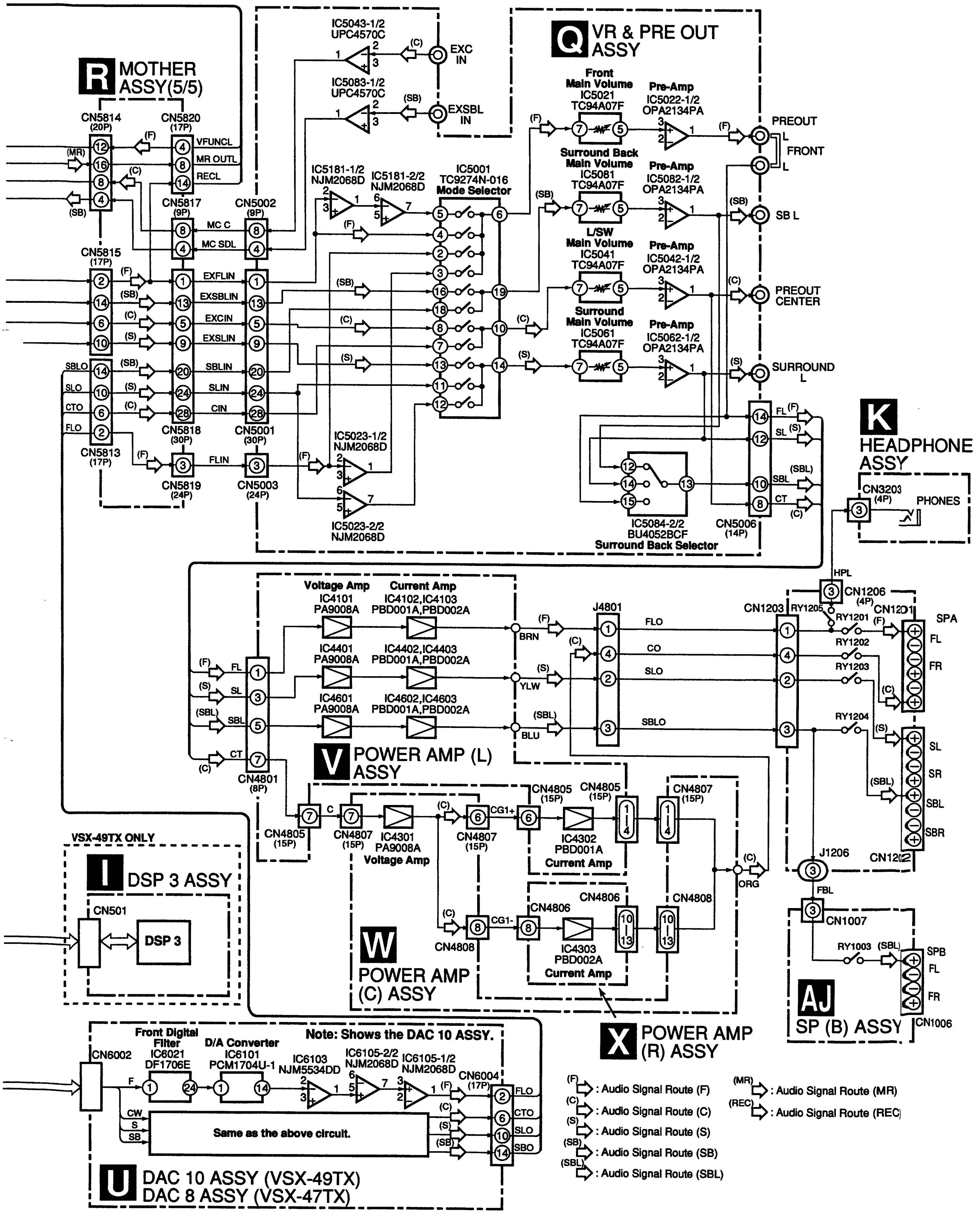
Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-49TX/KU/CA	VSX-47TX/KU/CA	
	1	DISPLAY Assy	AWX7864	AWX7865	
	11	Front Panel	ANB7269	ANB7268	
	30	Inner Panel	AAH7087	AAH7086	

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

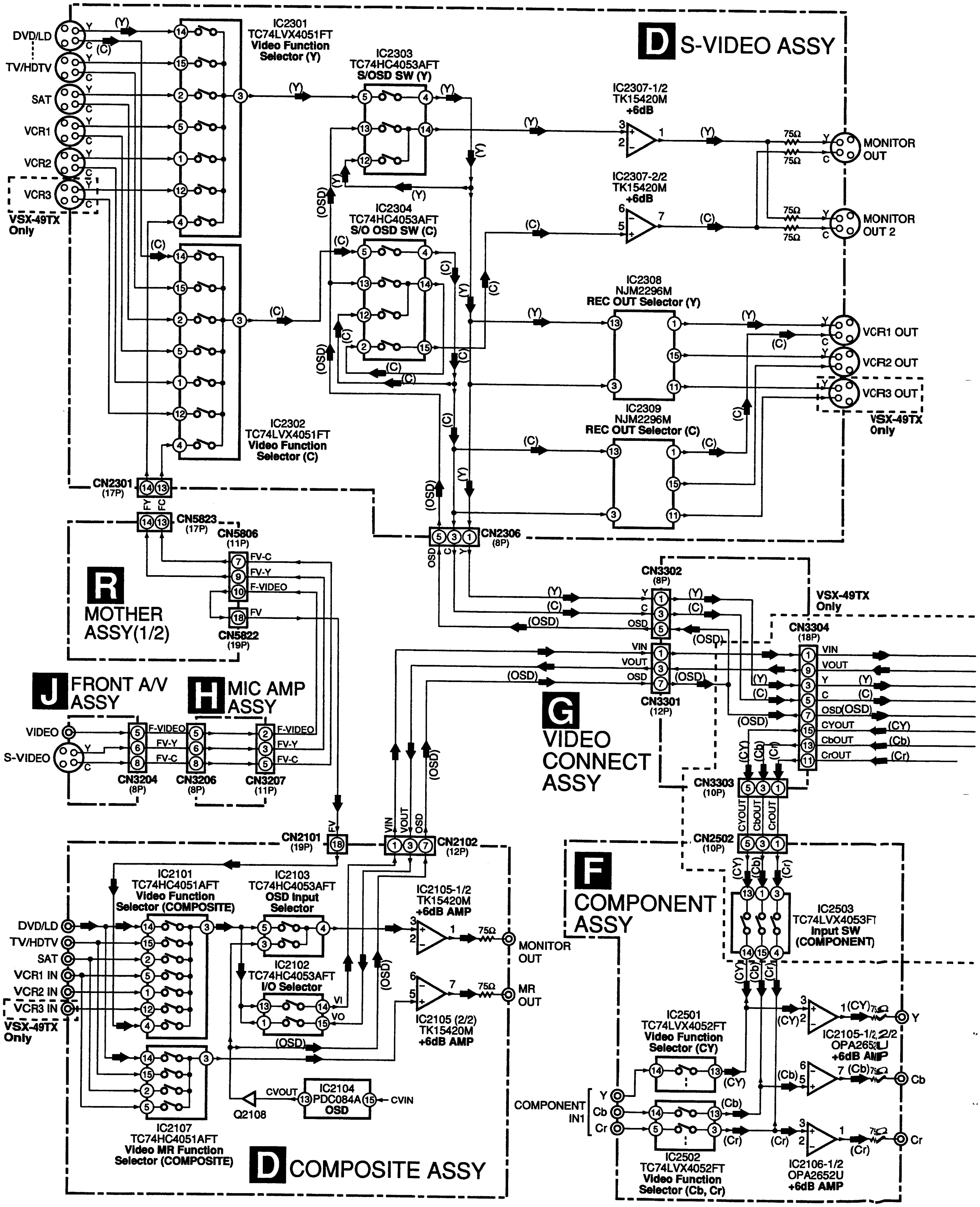
3.1.1 Audio Block


R MOTHER ASSY(1/5)
ANT
A FM/AM TUNER MODULE
CN2705 (13P)
L CH
CN5802 (13P)
CN5814 (20P)
TXL
CN3401 (20P)
L ANALOG IN & A/D ASSY
IC2001 TC9164AF A/V Function Selector
CN2001 (17P)
VFUNCL
MR OUTL
RECL
(F)
(MR)
(REC)
DVD/LD L
TV L
SAT L
VCR1 PLAY L
VCR2 PLAY L
VCR3 PLAY L
VSX-49TX ONLY
B AV I/O ASSY
IC2002 TC9162AF A/V MR Function Selector
IC2051-1/2 UPC4570C
MR VOL IC2052 M62429FP
MR OUT L
VCR3 REC L
VCR1 REC L
VCR2 REC L
IC2053-2/2 BA4558F
(17P) CN2002
CN2001 (17P)
MIC
FV L
PHONE L
CD L
TAPE1 PLAY L
FL IN
TAPE2 PLAY L
TAPE1 REC L
TAPE2 REC L
SL IN
IC3423-2/2 M5220P
IC3422 TC9163AF Audio Function Selector
CN3401 (20P)
VFUNC INL
MR LOUT
MC CIN
MC SBLIN
IC3424-1/2 UPC4570C
CN3402 (17P)
EX FLOUT
EX SBLOUT
EX COUT
EX SLOUT
(F)
(SB)
(C)
(S)
IC3901 BU4052BCF Audio MR Function Selector
IC3462-2/2 UPC4570C
SLOUT
FLOUT
COUT
SBLOUT
R MOTHER ASSY(2/5)
CN5821 (17P)
CN5820
CN5806 (11P)
I MIC & OPT ASSY(1/2)
CN3207 (11P)
IC3201-1/2 M5220FP
MIC AMP
JA3202 SETUP MIC
CN3202
CN3205
VIDEO L
CN3204
CN3206
Q3204
H MIC AMP ASSY
J FRONT A/V ASSY
I MIC & OPT ASSY(2/2)
OPT IN
CN3201 (5P)
OPT5 IN
R MOTHER ASSY(4/5)
CN5804 (5P)
CN5809 (9P)
F OPT
R MOTHER ASSY(3/5)
OPT OUT
OPT IN
COAX IN
CN703 (9P)
CN709
CN707
IC3502-2/2 NJM2068D
IC3421 AK5383VS Front A/D Converter
CN3403 (30P)
ADFFDT
CN5816 (30P)
CN5810 (17P)
AF DATA
CN702 (17P)
VSX-49TX ONLY
IC3701-2/2
IC3702-2/2
IC3461 AK5383VS Surround A/D Converter
ADSRDT
AS DATA
IC3601-2/2
IC3602-2/2
IC3441 AK5383VS C/SW A/D Converter
ADCWDT
AC DATA
IC3401 TC9163AF A/D Mode Selector
IC3801-2/2
IC3802-2/2
IC3481 AK5383VS Back A/D Converter
ADSBDT
AB DATA
DIR & DIT DSP 1 & 2 DSP U-COM RF Demodulator
S DSP ASSY

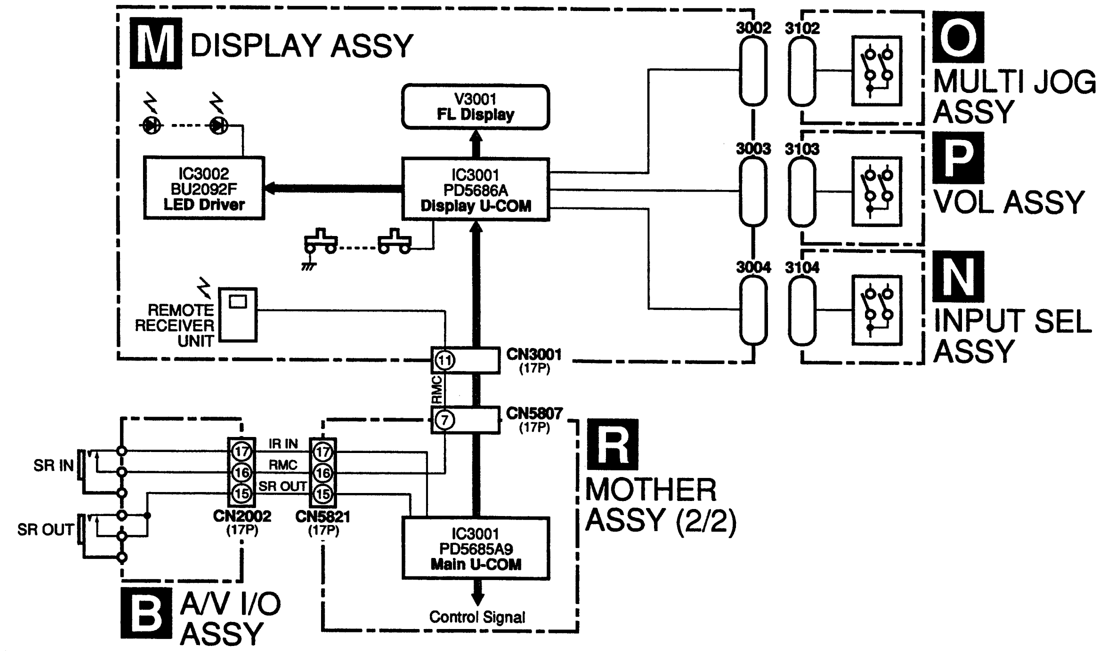

R MOTHER ASSY(5/5)
CN5814 (20P)
CN5820 (17P)
VFUNCL
MR OUTL
RECL
CN5817 (9P)
CN5002 (9P)
MC C
MC SDL
CN5815 (17P)
EXFLIN
EXSBLIN
EXCIN
EXSLIN
SBLIN
SLIN
CIN
SBLO
SLO
CTO
FLO
CN5818 (30P)
CN5001 (30P)
CN5813 (17P)
CN5819 (24P)
CN5003 (24P)
FLIN
IC5043-1/2 UPC4570C
IC5083-1/2 UPC4570C
EXC IN
EXSBL IN
IC5181-1/2 NJM2068D
IC5181-2/2 NJM2068D
IC5001 TC9274N-016 Mode Selector
IC5023-1/2 NJM2068D
IC5023-2/2 NJM2068D
Q VR & PRE OUT ASSY
Front Main Volume IC5021 TC94A07F
Pre-Amp IC5022-1/2 OPA2134PA
Surround Back Main Volume IC5081 TC94A07F
Pre-Amp IC5082-1/2 OPA2134PA
L/SW Main Volume IC5041 TC94A07F
Pre-Amp IC5042-1/2 OPA2134PA
Surround Main Volume IC5061 TC94A07F
Pre-Amp IC5062-1/2 OPA2134PA
PREOUT L FRONT L
SB L
PREOUT CENTER
SURROUND L
IC5084-2/2 BU4052BCF Surround Back Selector
CN5006 (14P)
K HEADPHONE ASSY
CN3203 (4P)
PHONES
HPL
CN1206 (4P)
CN1203
RY1205
RY1201
RY1202
RY1203
RY1204
CN1201
SPA
FL
FR
SL
SR
SBL
SBR
CN1202
J1206
FBL
CN1007
RY1003
SPB
AJ SP (B) ASSY
CN1006
Voltage Amp IC4101 PA9008A
Current Amp IC4102,IC4103 PBD001A,PBD002A
IC4401 PA9008A
IC4402,IC4403 PBD001A,PBD002A
IC4601 PA9008A
IC4602,IC4603 PBD001A,PBD002A
BRN
YLW
BLU
J4801
FLO
CO
SLO
SBLO
CN4801 (8P)
V POWER AMP (L) ASSY
CN4805 (15P)
CN4807 (15P)
IC4301 PA9008A Voltage Amp
CG1+
CG1-
IC4302 PBD001A Current Amp
IC4303 PBD002A Current Amp
CN4806
CN4808
ORG
W POWER AMP (C) ASSY
X POWER AMP (R) ASSY
VSX-49TX ONLY
I DSP 3 ASSY
CN501
DSP 3
Note: Shows the DAC 10 ASSY.
Front Digital Filter IC6021 DF1706E
D/A Converter IC6101 PCM1704U-1
IC6103 NJM5534DD
IC6105-2/2 NJM2068D
IC6105-1/2 NJM2068D
CN6002
CN6004 (17P)
CW
S
SB
Same as the above circuit.
FLO
CTO
SLO
SBO
U DAC 10 ASSY (VSX-49TX) DAC 8 ASSY (VSX-47TX)
(F) : Audio Signal Route (F)
(C) : Audio Signal Route (C)
(S) : Audio Signal Route (S)
(SB) : Audio Signal Route (SB)
(SBL) : Audio Signal Route (SBL)
(MR) : Audio Signal Route (MR)
(REC) : Audio Signal Route (REC)

3.1.2 Video and Display Blocks

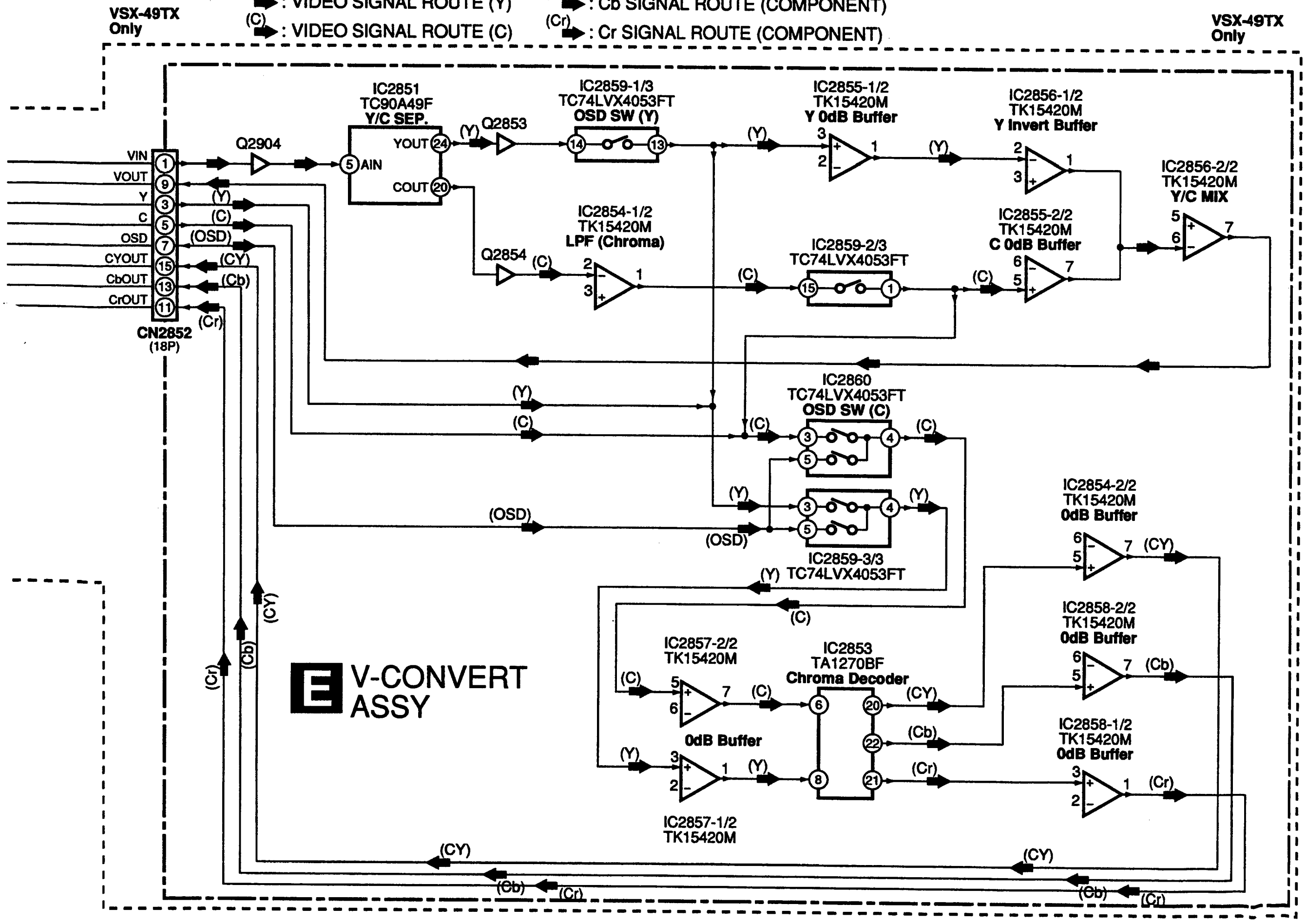
• Video Block


D S-VIDEO ASSY
DVD/LD
TV/HDTV
SAT
VCR1
VCR2
VCR3
VSX-49TX Only
IC2301 TC74LVX4051FT Video Function Selector (Y)
IC2302 TC74LVX4051FT Video Function Selector (C)
IC2303 TC74HC4053AFT S/OSD SW (Y)
IC2304 TC74HC4053AFT S/O OSD SW (C)
IC2307-1/2 TK15420M +6dB
IC2307-2/2 TK15420M +6dB
75Ω
MONITOR OUT
MONITOR OUT 2
IC2308 NJM2296M REC OUT Selector (Y)
IC2309 NJM2296M REC OUT Selector (C)
VCR1 OUT
VCR2 OUT
VCR3 OUT
VSX-49TX Only
(Y)
(C)
(OSD)
CN2301 (17P)
FY
FC
CN5823 (17P)
CN5806 (11P)
FV-C
FV-Y
F-VIDEO
FV
CN5822 (19P)
R MOTHER ASSY(1/2)
CN2306 (8P)
OSD
C
Y
CN3302 (8P)
CN3301 (12P)
VIN
VOUT
OSD
G VIDEO CONNECT ASSY
VSX-49TX Only
CN3304 (18P)
VIN
VOUT
Y
C
OSD(OSD)
CYOUT
CbOUT
CrOUT
(CY)
(Cb)
(Cr)
J FRONT A/V ASSY
H MIC AMP ASSY
VIDEO
S-VIDEO
F-VIDEO
FV-Y
FV-C
CN3204 (8P)
CN3206 (8P)
CN3207 (11P)
CN3303 (10P)
CN2502 (10P)
CN2101 (19P)
CN2102 (12P)
F COMPONENT ASSY
IC2503 TC74LVX4053FT Input SW (COMPONENT)
IC2101 TC74HC4051AFT Video Function Selector (COMPOSITE)
IC2103 TC74HC4053AFT OSD Input Selector
IC2102 TC74HC4053AFT I/O Selector
VI
VO
IC2105-1/2 TK15420M +6dB AMP
IC2105 (2/2) TK15420M +6dB AMP
75Ω
MONITOR OUT
MR OUT
DVD/LD
TV/HDTV
SAT
VCR1 IN
VCR2 IN
VCR3 IN
VSX-49TX Only
IC2104 PDC084A OSD
CVOUT
CVIN
Q2108
IC2107 TC74HC4051AFT Video MR Function Selector (COMPOSITE)
D COMPOSITE ASSY
IC2501 TC74LVX4052FT Video Function Selector (CY)
IC2502 TC74LVX4052FT Video Function Selector (Cb, Cr)
COMPONENT IN1
Y
Cb
Cr
IC2105-1/2,2/2 OPA2652U +6dB AMP
IC2106-1/2 OPA2652U +6dB AMP
75Ω
Y
Cb
Cr

• Display Block

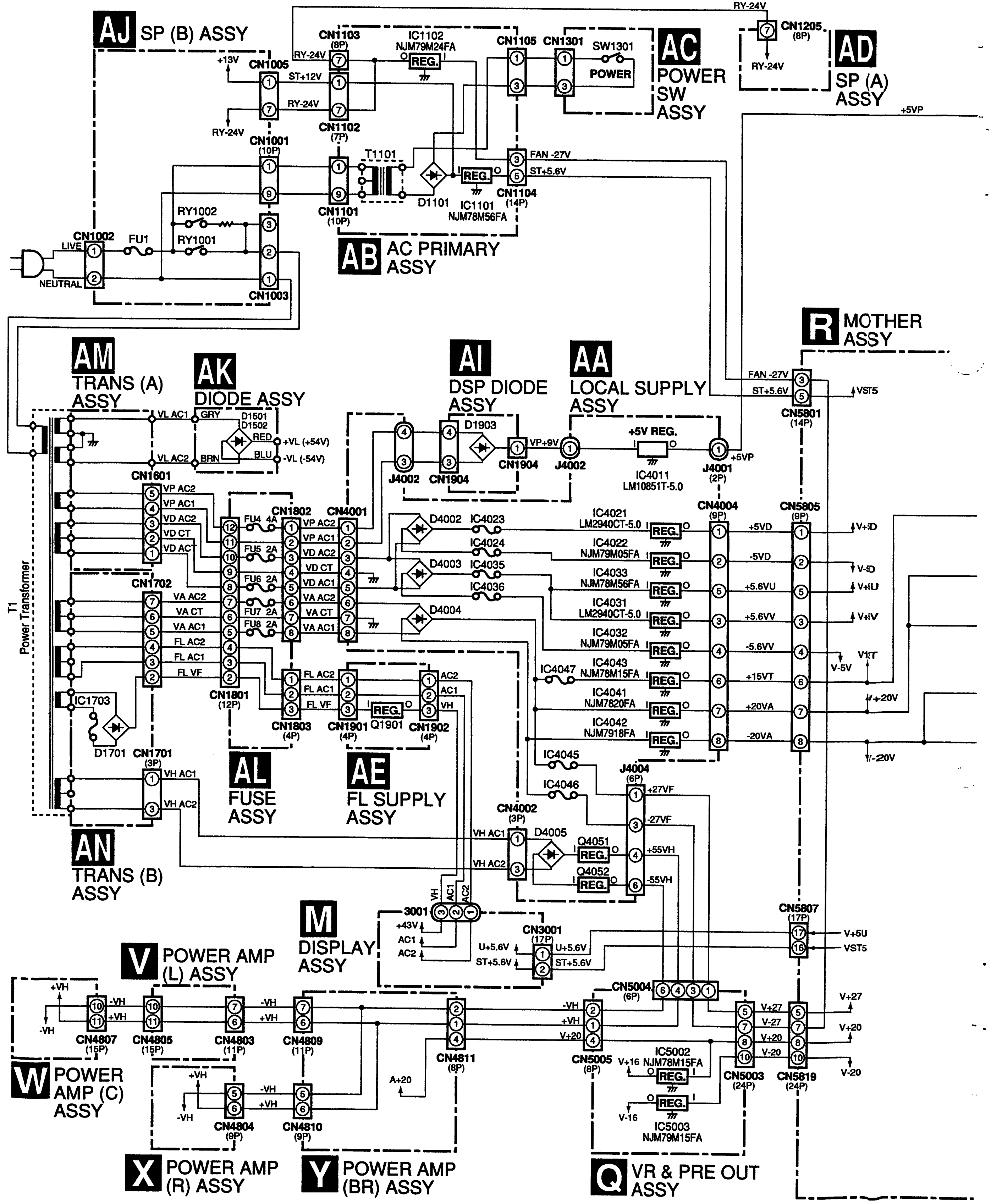

M DISPLAY ASSY
V3001
FL Display
IC3002
BU2092F
LED Driver
IC3001
PD5686A
Display U-COM
REMOTE
RECEIVER
UNIT
CN3001
(17P)
RMC
CN5807
(17P)
3002
3102
3003
3103
3004
3104
O MULTI JOG ASSY
P VOL ASSY
N INPUT SEL ASSY
R MOTHER ASSY (2/2)
SR IN
SR OUT
IR IN
RMC
SR OUT
CN2002
(17P)
CN5821
(17P)
IC3001
PD5685A9
Main U-COM
Control Signal
B A/V I/O ASSY

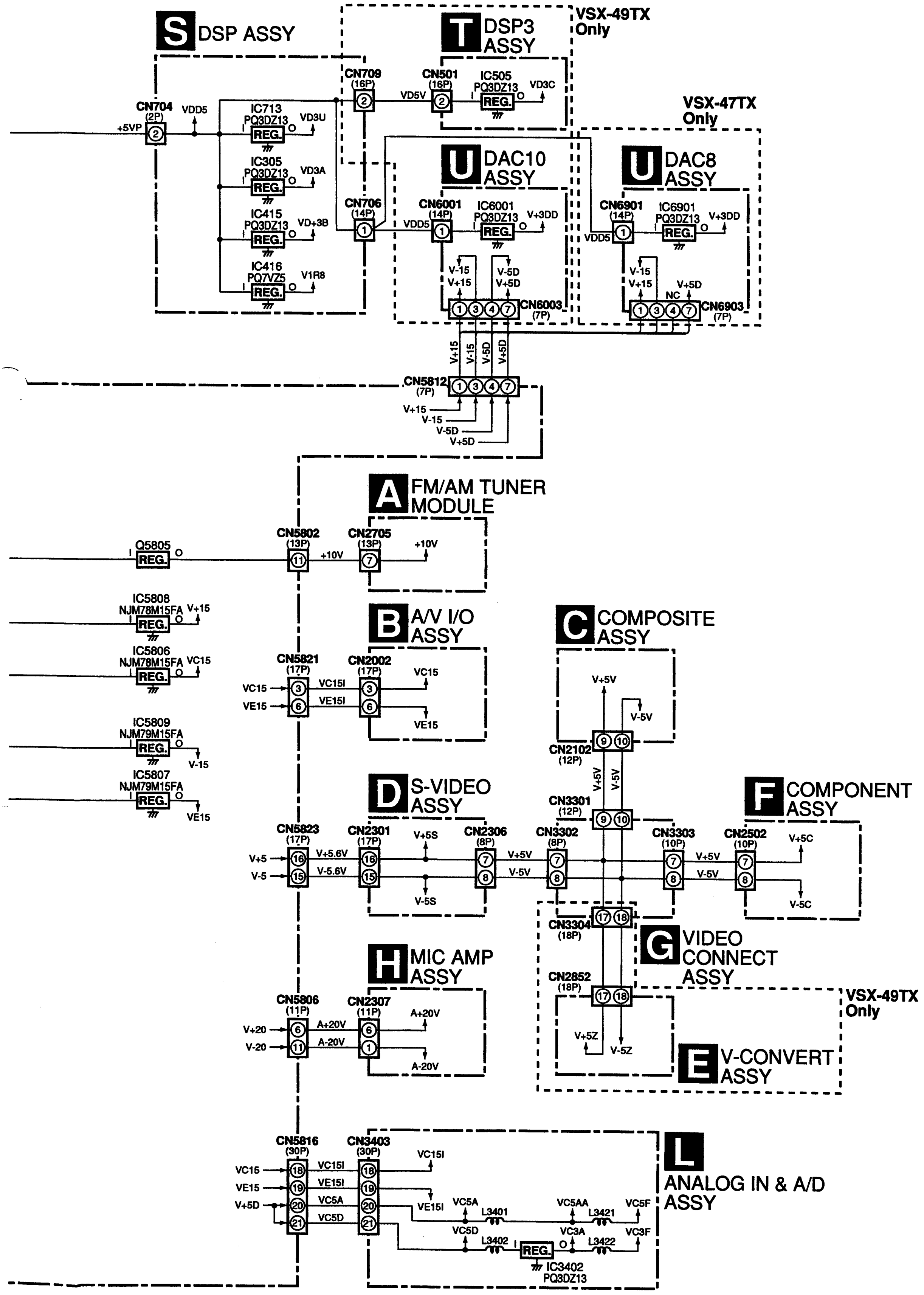
➡ : VIDEO SIGNAL ROUTE
(Y)➡ : VIDEO SIGNAL ROUTE (Y)
(C)➡ : VIDEO SIGNAL ROUTE (C)
(CY)➡ : Y SIGNAL ROUTE (COMPONENT)
(Cb)➡ : Cb SIGNAL ROUTE (COMPONENT)
(Cr)➡ : Cr SIGNAL ROUTE (COMPONENT)
(OSD)➡ : VIDEO SIGNAL ROUTE (OSD)


VSX-49TX Only
VSX-49TX Only
VIN
VOUT
Y
C
OSD
CYOUT
CbOUT
CrOUT
CN2852
(18P)
Q2904
IC2851
TC90A49F
Y/C SEP.
YOUT
AIN
COUT
Q2853
Q2854
IC2859-1/3
TC74LVX4053FT
OSD SW (Y)
IC2855-1/2
TK15420M
Y 0dB Buffer
IC2856-1/2
TK15420M
Y Invert Buffer
IC2856-2/2
TK15420M
Y/C MIX
IC2854-1/2
TK15420M
LPF (Chroma)
IC2859-2/3
TC74LVX4053FT
IC2855-2/2
TK15420M
C 0dB Buffer
IC2860
TC74LVX4053FT
OSD SW (C)
IC2859-3/3
TC74LVX4053FT
IC2854-2/2
TK15420M
0dB Buffer
IC2858-2/2
TK15420M
0dB Buffer
IC2858-1/2
TK15420M
0dB Buffer
IC2857-2/2
TK15420M
IC2853
TA1270BF
Chroma Decoder
0dB Buffer
IC2857-1/2
TK15420M
E V-CONVERT ASSY
(Y)
(C)
(OSD)
(CY)
(Cb)
(Cr)

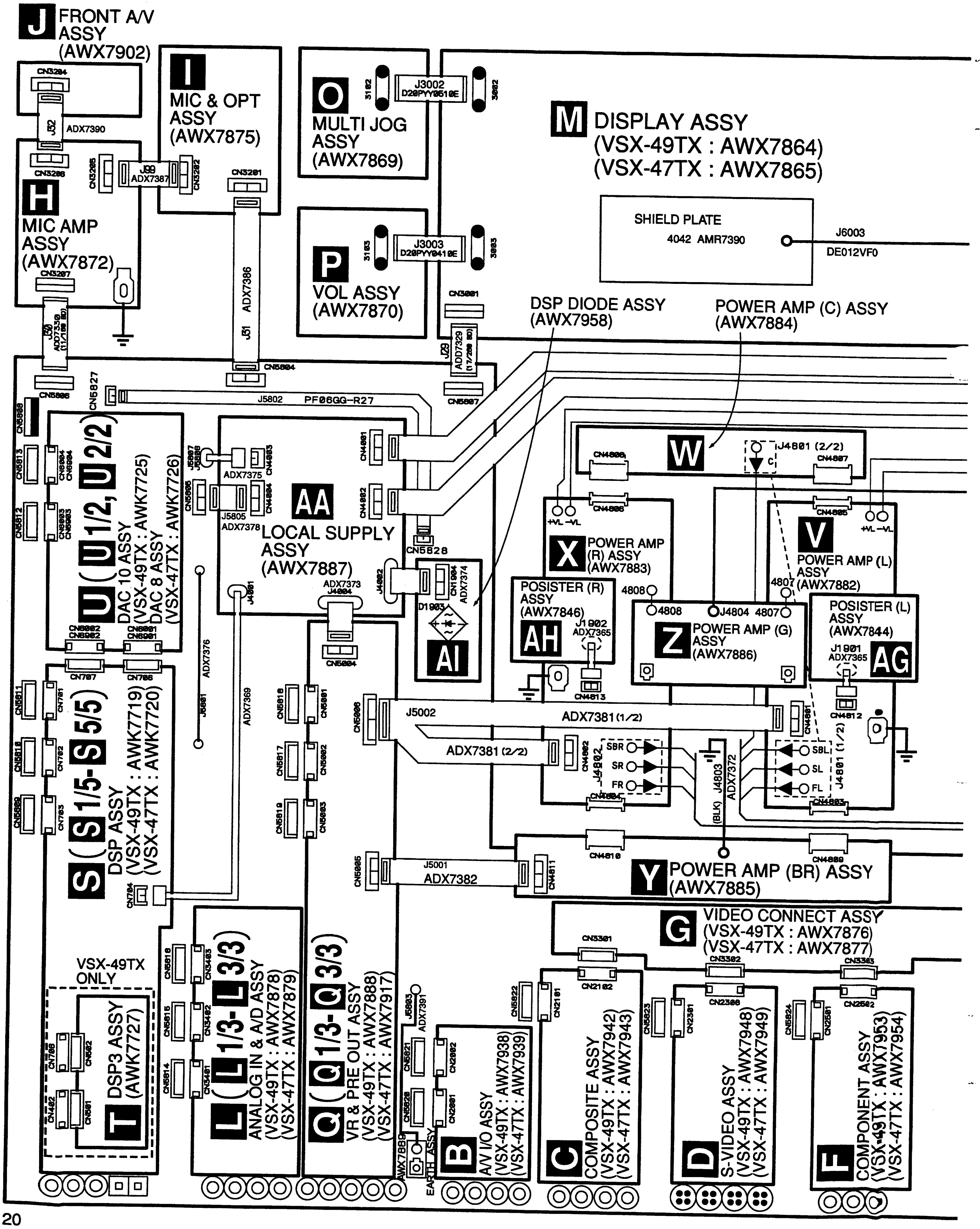
3.1.3 Power Supply Block

- **Power Supply Block**

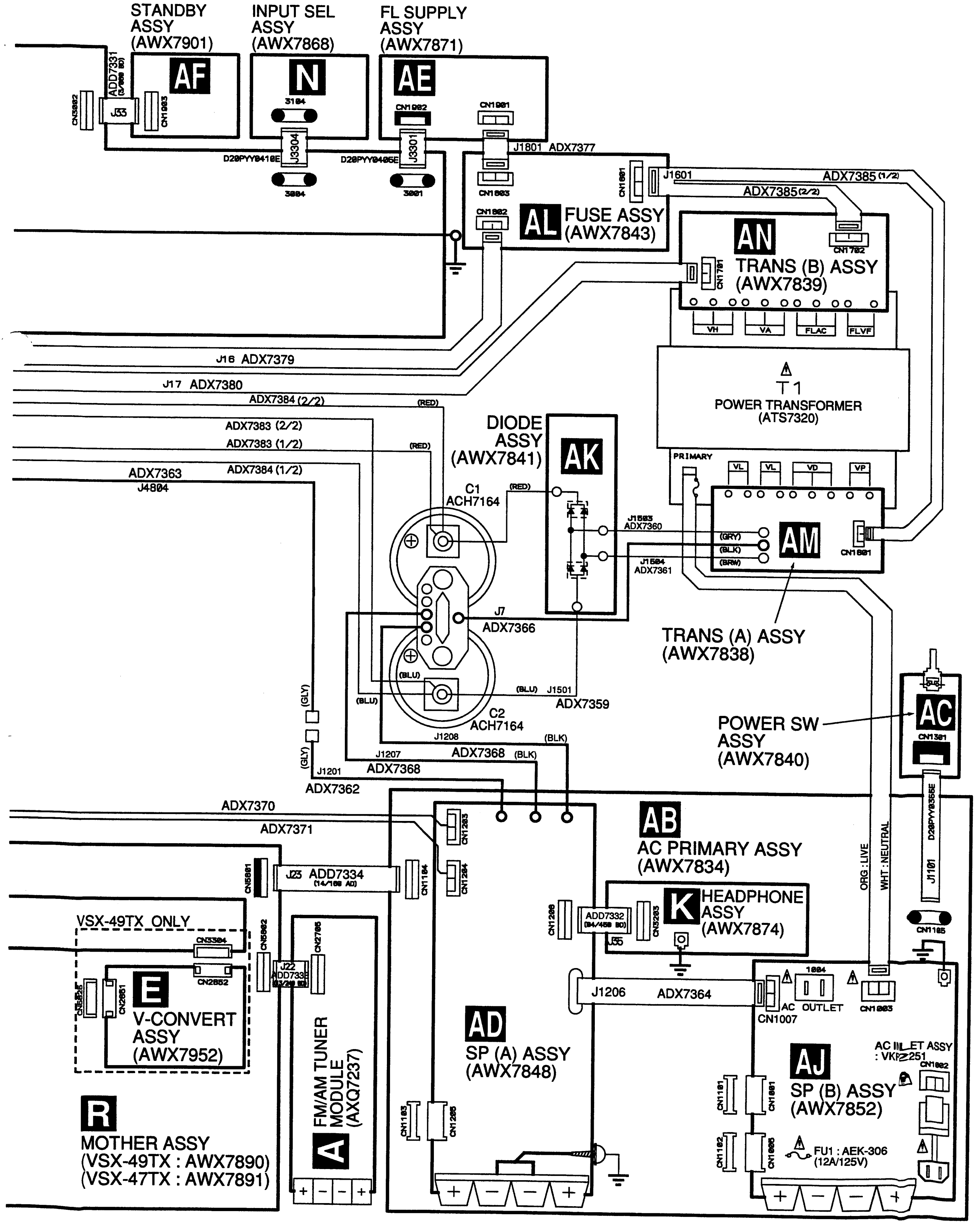

AJ SP (B) ASSY
CN1005
CN1001 (10P)
CN1002
CN1003
FU1
LIVE
NEUTRAL
RY1002
RY1001
+13V
ST+12V
RY-24V
CN1103 (8P)
CN1102 (7P)
CN1101 (10P)
IC1102 NJM79M24FA
REG.
T1101
D1101
IC1101 NJM78M56FA
CN1105
CN1104 (14P)
FAN -27V
ST+5.6V
AB AC PRIMARY ASSY
CN1301
SW1301 POWER
AC POWER SW ASSY
CN1205 (8P)
AD SP (A) ASSY
+5VP
R MOTHER ASSY
CN5801 (14P)
VST5
AM TRANS (A) ASSY
AK DIODE ASSY
VL AC1
VL AC2
GRY
BRN
RED
BLU
D1501 D1502
+VL (+54V)
-VL (-54V)
T1 Power Transformer
CN1601
VP AC2
VP AC1
VD AC2
VD CT
VD AC1
CN1702
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
IC1703
D1701
CN1701 (3P)
VH AC1
VH AC2
AN TRANS (B) ASSY
CN1801 (12P)
CN1802
FU4 4A
FU5 2A
FU6 2A
FU7 2A
FU8 2A
AL FUSE ASSY
CN4001
CN1803 (4P)
CN1901 (4P)
Q1901
CN1902 (4P)
AC2
AC1
VH
AE FL SUPPLY ASSY
AI DSP DIODE ASSY
J4002
CN1904
D1903
VP+9V
AA LOCAL SUPPLY ASSY
+5V REG.
IC4011 LM10851T-5.0
J4001 (2P)
CN4004 (9P)
CN5805 (9P)
D4002
D4003
D4004
IC4023
IC4024
IC4035
IC4036
IC4021 LM2940CT-5.0
IC4022 NJM79M05FA
IC4033 NJM78M56FA
IC4031 LM2940CT-5.0
IC4032 NJM79M05FA
IC4043 NJM78M15FA
IC4047
IC4041 NJM7820FA
IC4042 NJM7918FA
+5VD
-5VD
+5.6VU
+5.6VV
-5.6VV
+15VT
+20VA
-20VA
V+5D
V-5D
V+5U
V+5V
V-5V
V15T
V+20V
V-20V
IC4045
IC4046
J4004 (6P)
+27VF
-27VF
+55VH
-55VH
CN4002 (3P)
D4005
Q4051
Q4052
M DISPLAY ASSY
3001
+43V
AC1
AC2
CN3001 (17P)
U+5.6V
ST+5.6V
CN5807 (17P)
V+5U
VST5
V POWER AMP (L) ASSY
W POWER AMP (C) ASSY
+VH
-VH
CN4807 (15P)
CN4805 (15P)
CN4803 (11P)
CN4809 (11P)
CN4811 (8P)
A+20
CN4804 (9P)
CN4810 (9P)
X POWER AMP (R) ASSY
Y POWER AMP (BR) ASSY
CN5004 (6P)
CN5005 (8P)
V+20
V+16
IC5002 NJM78M15FA
IC5003 NJM79M15FA
V-16
CN5003 (24P)
CN5819 (24P)
V+27
V-27
V+20
V-20
Q VR & PRE OUT ASSY


S DSP ASSY
T DSP3 ASSY
VSX-49TX Only
VSX-47TX Only
U DAC10 ASSY
U DAC8 ASSY
CN704 (2P)
+5VP
VDD5
IC713 PQ3DZ13 REG. VD3U
IC305 PQ3DZ13 REG. VD3A
IC415 PQ3DZ13 REG. VD+3B
IC416 PQ7VZ5 REG. V1R8
CN709 (16P)
VD5V
CN501 (16P)
IC505 PQ3DZ13 REG. VD3C
CN706 (14P)
CN6001 (14P)
VDD5
IC6001 PQ3DZ13 REG. V+3DD
V-15
V+15
V-5D
V+5D
CN6003 (7P)
CN6901 (14P)
IC6901 PQ3DZ13 REG. V+3DD
NC
CN6903 (7P)
CN5812 (7P)
A FM/AM TUNER MODULE
Q5805 REG.
CN5802 (13P)
+10V
CN2705 (13P)
IC5808 NJM78M15FA REG. V+15
IC5806 NJM78M15FA REG. VC15
IC5809 NJM79M15FA REG. V-15
IC5807 NJM79M15FA REG. VE15
B A/V I/O ASSY
CN5821 (17P)
VC15
VE15
VC15I
VE15I
CN2002 (17P)
C COMPOSITE ASSY
V+5V
V-5V
CN2102 (12P)
CN3301 (12P)
D S-VIDEO ASSY
CN5823 (17P)
V+5
V-5
V+5.6V
V-5.6V
CN2301 (17P)
V+5S
V-5S
CN2306 (8P)
CN3302 (8P)
CN3303 (10P)
F COMPONENT ASSY
CN2502 (10P)
V+5C
V-5C
CN3304 (18P)
G VIDEO CONNECT ASSY
CN2852 (18P)
V+5Z
V-5Z
E V-CONVERT ASSY
H MIC AMP ASSY
CN5806 (11P)
V+20
V-20
A+20V
A-20V
CN2307 (11P)
L ANALOG IN & A/D ASSY
CN5816 (30P)
V+5D
VC5A
VC5D
CN3403 (30P)
L3401
VC5AA
L3421
VC5F
VC3A
L3402
IC3402 PQ3DZ13 REG.
L3422
VC3F

3.2 OVERALL WIRING DIAGRAM

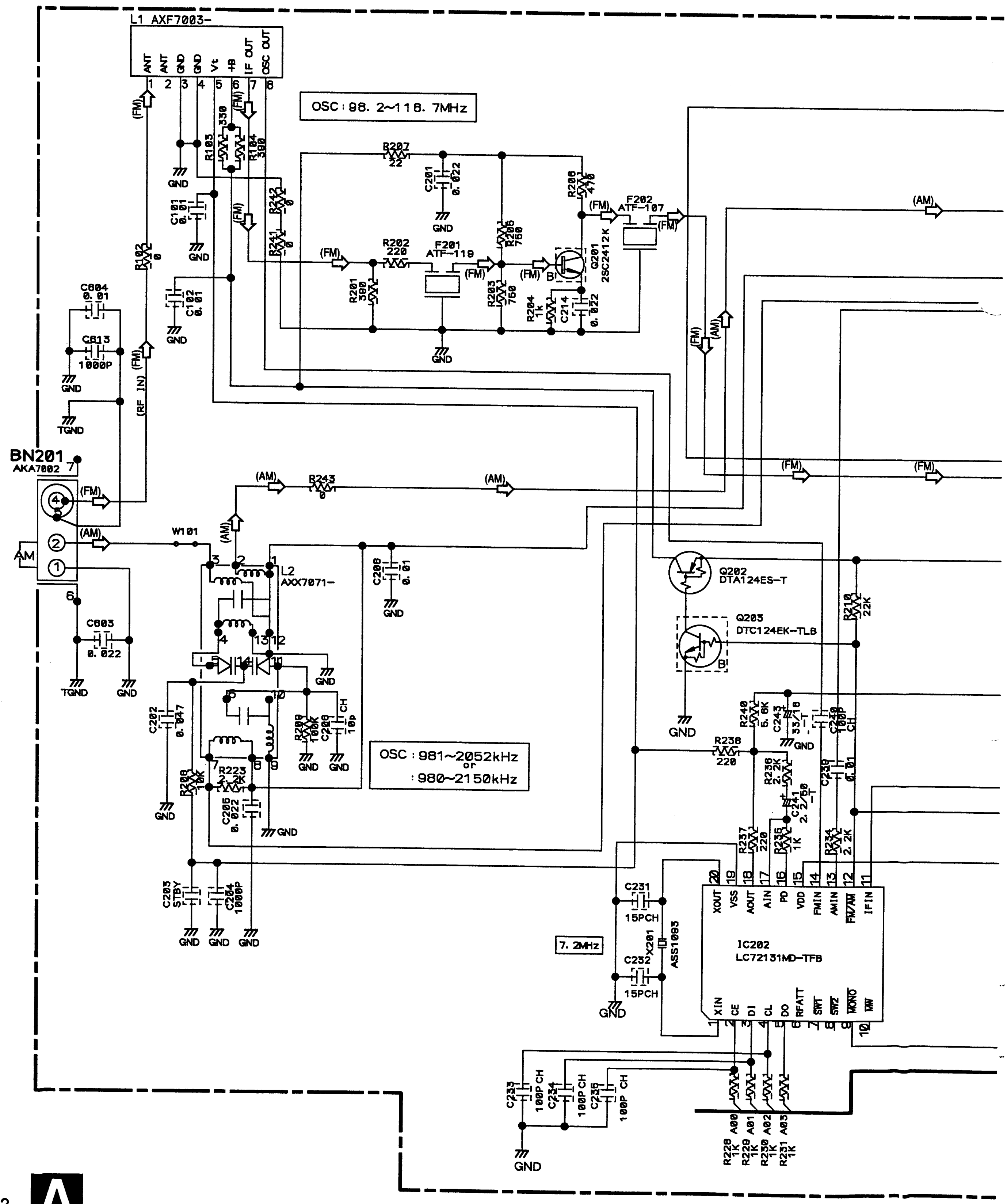

J FRONT A/V ASSY (AWX7902)
CN3204
J32
ADX7390
CN3206
H MIC AMP ASSY (AWX7872)
CN3207
CN3205
J99 ADX7387
CN3202
I MIC & OPT ASSY (AWX7875)
CN3201
J51 ADX7386
J50 ADD7330 (11/100 00)
O MULTI JOG ASSY (AWX7869)
3102
J3002 D20PYY0610E
3002
P VOL ASSY (AWX7870)
3103
J3003 D20PYY0410E
3003
CN3001
J29 ADD7329 (17/200 00)
M DISPLAY ASSY (VSX-49TX : AWX7864) (VSX-47TX : AWX7865)
SHIELD PLATE
4042 AMR7390
J6003
DE012VF0
DSP DIODE ASSY (AWX7958)
POWER AMP (C) ASSY (AWX7884)
CN5804
CN5806
CN5807
CN5827
J5802 PF06GG-R27
CN5808
CN5813
CN5812
CN6004 CN6904
CN6003 CN6903
U (U 1/2, U 2/2) DAC 10 ASSY (VSX-49TX : AWK7725) DAC 8 ASSY (VSX-47TX : AWK7726)
CN6002 CN6902
CN6001 CN6901
J5807 J5808
ADX7375
CN4003
CN5805
J5805 ADX7378
CN4004
AA LOCAL SUPPLY ASSY (AWX7887)
CN4001
CN4002
CN5828
J4002
CN1904
ADX7374
D1903
AI
J4001
ADX7373 J4004
CN5004
ADX7376
J5801
ADX7369
CN5811
CN5810
CN5809
CN701
CN702
CN703
CN707
CN706
CN704
S (S 1/5- S 5/5) DSP ASSY (VSX-49TX : AWK7719) (VSX-47TX : AWK7720)
CN5816
CN5817
CN5819
CN5001
CN5002
CN5003
CN5006
J5002
ADX7381 (1/2)
ADX7381 (2/2)
CN5005
J5001 ADX7382
W
CN4808
CN4807
J4801 (2/2)
C
X POWER AMP (R) ASSY (AWX7883)
+VL -VL
CN4806
V POWER AMP (L) ASSY (AWX7882)
CN4805
+VL -VL
4807
4808
POSISTER (R) ASSY (AWX7846)
AH
J1902 ADX7365
CN4813
Z POWER AMP (G) ASSY (AWX7886)
4808
J4804
4807
POSISTER (L) ASSY (AWX7844)
J1901 ADX7365
AG
CN4812
CN4801
CN4802
J4802
SBR
SR
FR
CN4804
J4803
(BLK)
ADX7372
SBL
SL
FL
J4801 (1/2)
CN4803
CN4810
CN4809
CN4811
Y POWER AMP (BR) ASSY (AWX7885)
G VIDEO CONNECT ASSY (VSX-49TX : AWX7876) (VSX-47TX : AWX7877)
CN3301
CN3302
CN3303
VSX-49TX ONLY
CN706
CN402
CN502
CN501
T DSP3 ASSY (AWK7727)
CN5818
CN5815
CN5814
CN3403
CN3402
CN3401
L (L 1/3- L 3/3) ANALOG IN & A/D ASSY (VSX-49TX : AWX7878) (VSX-47TX : AWX7879)
Q (Q 1/3- Q 3/3) VR & PRE OUT ASSY (VSX-49TX : AWX7888) (VSX-47TX : AWX7917)
J5803 ADX7391
CN5821
CN5820
CN2002
CN2001
AWX7889
EARTH ASSY
B A/V I/O ASSY (VSX-49TX : AWX7938) (VSX-47TX : AWX7939)
CN5822
CN2101
CN2102
C COMPOSITE ASSY (VSX-49TX : AWX7942) (VSX-47TX : AWX7943)
CN5823
CN2301
CN2300
D S-VIDEO ASSY (VSX-49TX : AWX7948) (VSX-47TX : AWX7949)
CN5824
CN2501
CN2502
F COMPONENT ASSY (VSX-49TX : AWX7953) (VSX-47TX : AWX7954)
1
2
3
4
A
B
C
D

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

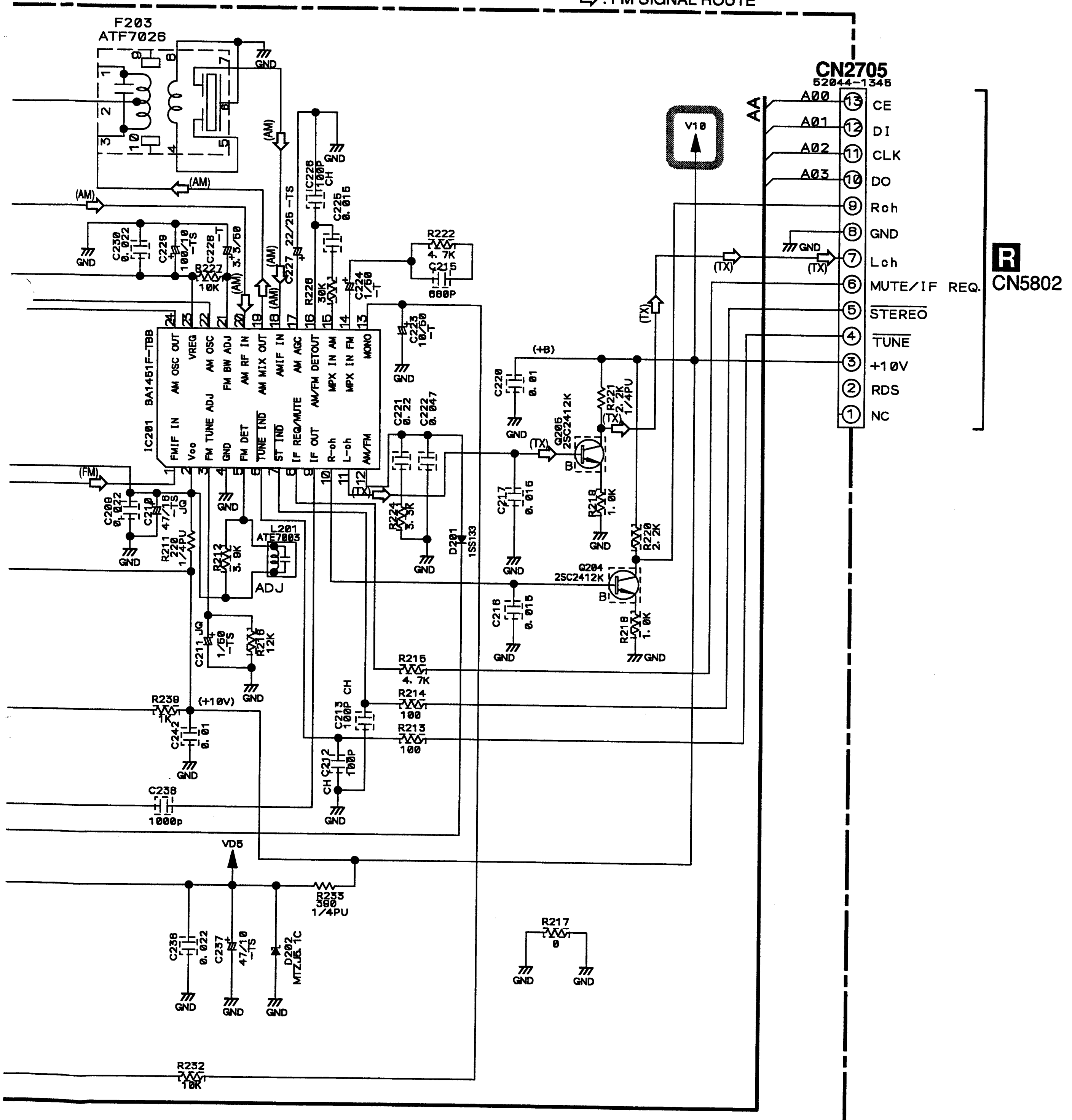

STANDBY ASSY (AWX7901)
AF
INPUT SEL ASSY (AWX7868)
N
FL SUPPLY ASSY (AWX7871)
AE
ADD7331 (3/080 BD)
CN3002
J33
CN1903
3104
3004
J3304
J3301
D20PYY0410E
D20PYY0405E
3001
CN1902
CN1901
J1801 ADX7377
CN1803
CN1802
CN1601
J1601
ADX7385 (1/2)
ADX7385 (2/2)
AL
FUSE ASSY (AWX7843)
AN
CN1702
TRANS (B) ASSY (AWX7839)
CN1701
VH
VA
FLAC
FLVF
T1
POWER TRANSFORMER (ATS7320)
PRIMARY
VL
VL
VD
VP
J16 ADX7379
J17 ADX7380
ADX7384 (2/2)
(RED)
ADX7383 (2/2)
ADX7383 (1/2)
(RED)
ADX7363
J4804
ADX7384 (1/2)
DIODE ASSY (AWX7841)
AK
C1
ACH7164
(RED)
J1503
ADX7360
J1504
ADX7361
(GRY)
(BLK)
(BRW)
AM
CN1601
J7
ADX7366
TRANS (A) ASSY (AWX7838)
(BLU)
(BLU)
(BLU) J1501
ADX7359
C2
ACH7164
J1208
(BLK)
(GLY)
(GLY)
J1201
ADX7362
J1207
ADX7368
ADX7368 (BLK)
POWER SW ASSY (AWX7840)
AC
CN1301
D20PYY0355E
J1101
CN1105
ORG : LIVE
WHT : NEUTRAL
ADX7370
ADX7371
AB
AC PRIMARY ASSY (AWX7834)
CN1203
CN1204
CN1104
CN5001
J23 ADD7334 (14/160 AD)
VSX-49TX ONLY
CN3304
CN2652
CN5002
J22 ADD7335 (3/240 BD)
CN2705
CN1206
ADD7332 (04/450 BD)
J35
CN5203
K
HEADPHONE ASSY (AWX7874)
E
CN2651
CN2626
V-CONVERT ASSY (AWX7952)
FM/AM TUNER MODULE (AXQ7237)
A
J1206
ADX7364
CN1007
1004
AC OUTLET
CN1003
AD
SP (A) ASSY (AWX7848)
AJ
SP (B) ASSY (AWX7852)
AC INLET ASSY : VKP2251
CN1002
CN1101
CN1001
CN1102
CN1005
CN1103
CN1205
FU1 : AEK-306 (12A/125V)
R
MOTHER ASSY (VSX-49TX : AWX7890) (VSX-47TX : AWX7891)
+ − − +
+ − − +
+ − − +

3.3 FM/AM TUNER MODULE

A FM/AM TUNER MODULE (AXQ7237)


L1 AXF7003-
ANT ANT GND GND Vt +B IF OUT OSC OUT
OSC : 98.2~118.7MHz
R207 22
C201 0.022
R206 470
F202 ATF-107
(FM) (AM)
R103 330
R104 390
R242 0
R241 0
C101 0.01
R102 0
C102 0.01
C604 0.01
C613 1000P
(RF IN)
R202 220
F201 ATF-119
R201 390
R205 750
R203 750
R204 1k
C214 0.022
Q201 2SC2412K
GND
TGND
BN201 AKA7002
AM
R243 0
W101
L2 AXX7071-
C200 0.01
C603 0.022
C202 0.047
R209 100K
C208 CH 10p
R208 10K
R223 2.2K
C205 0.022
OSC : 981~2052kHz or : 980~2150kHz
C203 STBY
C204 1000P
Q202 DTA124ES-T
Q203 DTC124EK-TLB
R210 22K
R240 5.6K
C243 33/16
C250 100P CH
R238 220
R236 2.2K
C241 2.2/50
C239 0.01
R237 220
R235 1K
R234 2.2K
C231 15PCH
C232 15PCH
X201 ASS1003
7.2MHz
IC202 LC72131MD-TFB
XOUT VSS AOUT AIN PD VDD FMIN AMIN FM/AM IFIN
XIN CE DI CL DO RFATT SW1 SW2 MONO MW
C233 100P CH
C234 100P CH
C235 100P CH
R228 A00 1K
R229 A01 1K
R230 A02 1K
R231 A03 1K

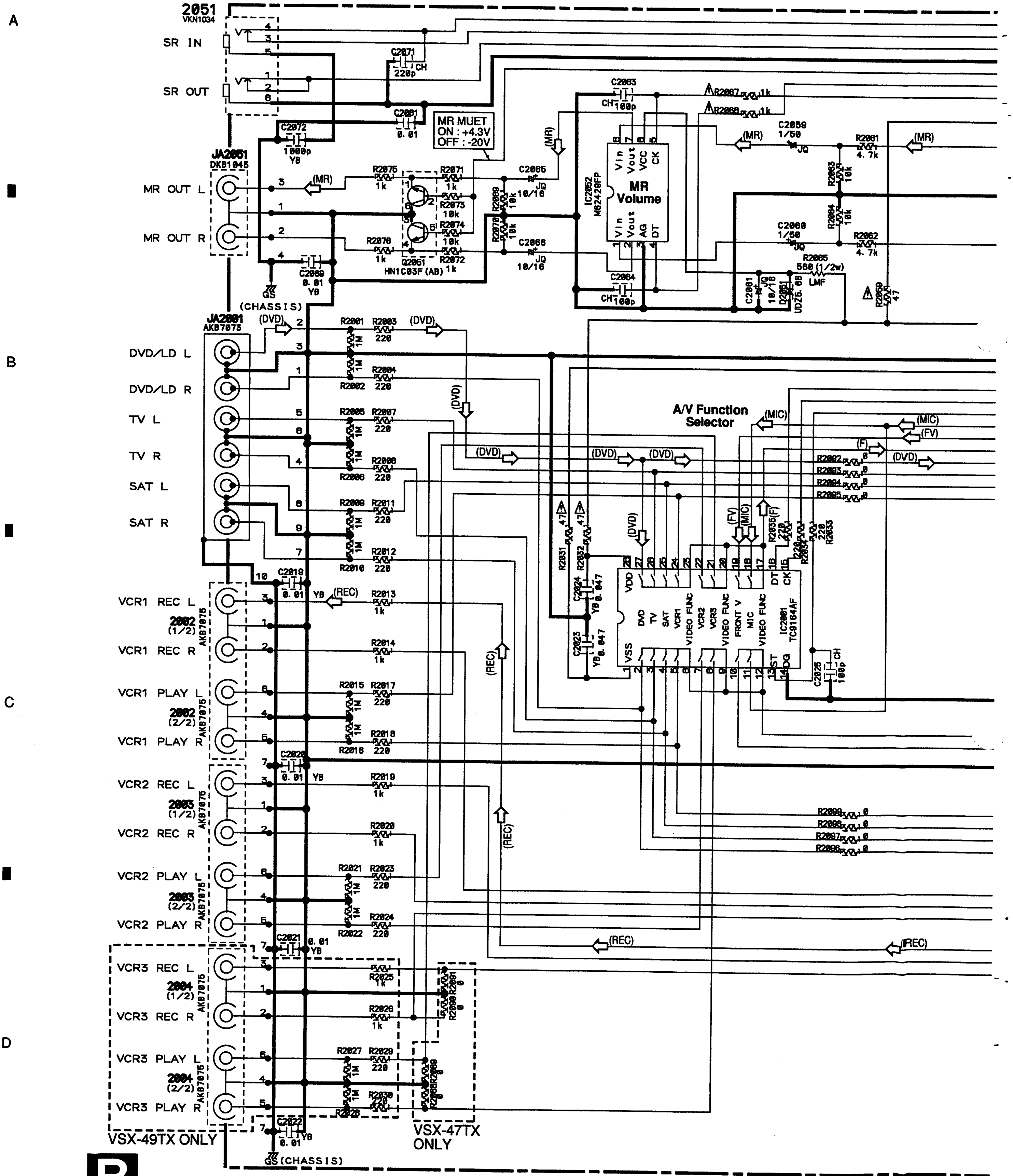
(TX)⇨ : AUDIO SIGNAL ROUTE (TUNER)
(AM)⇨ : AM SIGNAL ROUTE
(FM)⇨ : FM SIGNAL ROUTE

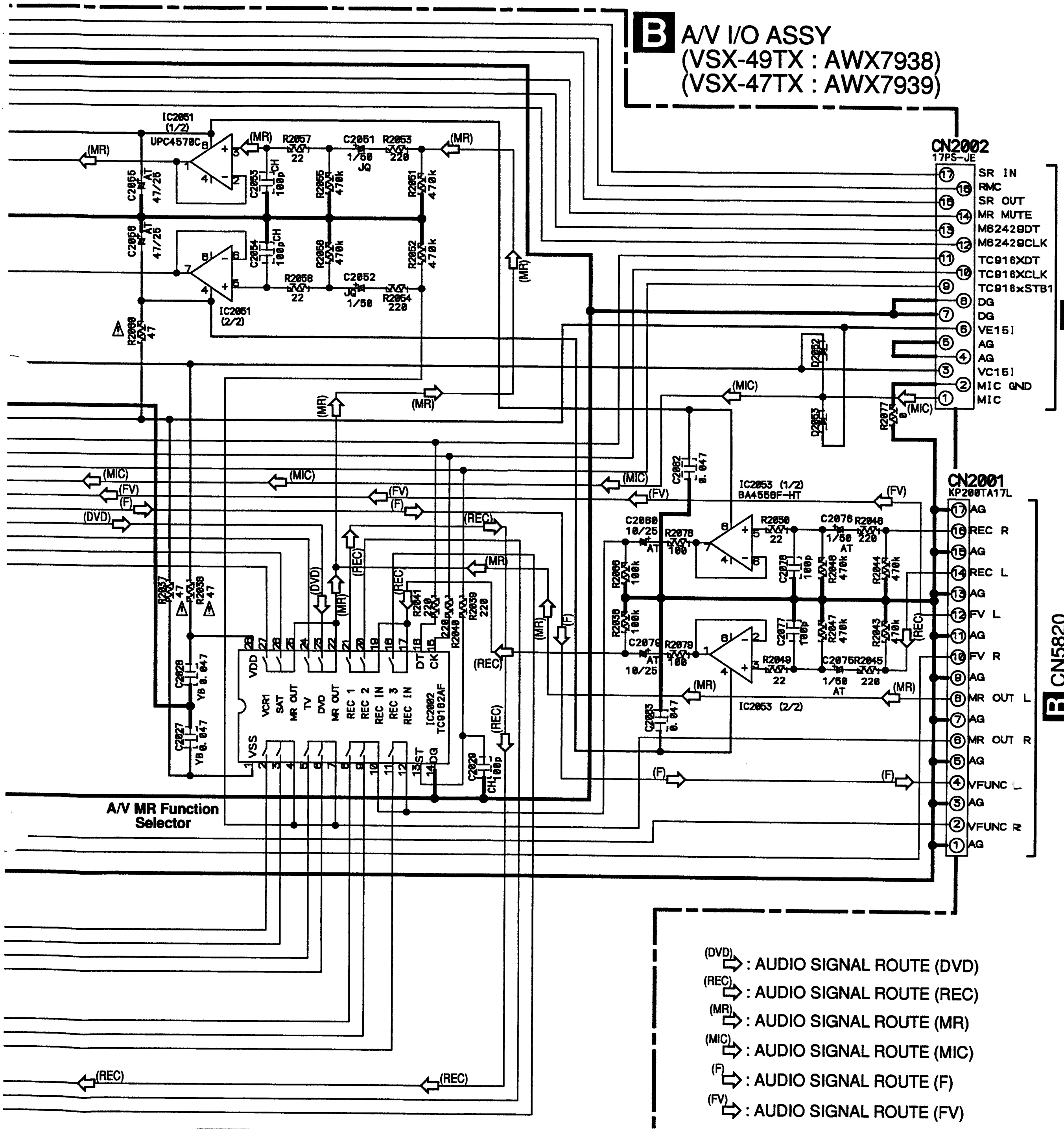

F203
ATF7026
GND
CN2705
52044-1345
AA
A00
A01
A02
A03
13 CE
12 DI
11 CLK
10 DO
9 Rch
8 GND
7 Lch
6 MUTE/IF REQ.
5 STEREO
4 TUNE
3 +10V
2 RDS
1 NC
R
CN5802
V10
(AM)
(FM)
(TX)
(+B)
IC201 BA1451F-TBB
FMIF IN
Vcc
FM TUNE ADJ
GND
FM DET
TUNE IND
ST IND
IF REQ/MUTE
IF OUT
R-ch
L-ch
AM/FM
AM OSC OUT
VREG
AM OSC
FM BW ADJ
AM RF IN
AM MIX OUT
AMIF IN
AM AGC
AM/FM DETOUT
MPX IN AM
MPX IN FM
MONO
C230 0.022
C229 100/10 -TS
C228 3.3/50 -T
R227 10K
C227 22/25 -TS
C226 100P CH
C225 0.015
R226 30K
C224 1/50 -T
R222 4.7K
C215 680P
C223 10/50 -T
C221 0.22
C222 0.047
R224 3.3K
D201 1SS133
C220 0.01
R221 2.2K 1/4PU
Q205 2SC2412K
C217 0.015
R219 1.0K
R220 2.2K
Q204 2SC2412K
C218 0.015
R218 1.0K
C209 0.022
C210 47/16 -TS JQ
R211 220 1/4PU
R212 3.9K
L201 ATE7003
ADJ
C211 JQ 1/50 -TS
R216 12K
R215 4.7K
R214 100
R213 100
C213 100P CH
C212 100P CH
R239 1K
(+10V)
C242 0.01
C238 1000p
VD5
R233 390 1/4PU
C236 0.022
C237 47/10 -TS
D202 MTZJ5.1C
R217 0
R232 10K

Notes
1. RESISTORS
Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K:KΩ, M:MΩ.
2. CAPACITORS
Indicated in Capacity (μF)/VOLTAGE (V) unless otherwise noted P:PF.
3. DIODES
No mark diode is 1SS133.

⬭ : The power supply is shown with the marked box.

3.4 A/V I/O ASSY


A
B
C
D
2051
VKN1034
SR IN
SR OUT
JA2051
DKB1045
MR OUT L
MR OUT R
MR MUET
ON : +4.3V
OFF : -20V
C2071 220p CH
C2061 0.01
C2072 1000p YB
C2069 0.01 YB
R2075 1k
R2076 1k
R2071 1k
R2073 10k
R2074 10k
R2072 1k
Q2051 HN1C03F (AB)
R2069 10k
R2070 10k
C2065 10/16 JQ
C2066 10/16 JQ
C2063 CH 100p
C2064 CH 100p
IC2062 M62420FP
MR Volume
Vin Vout VCC CK
Vin Vout AG DT
R2067 1k
R2068 1k
C2059 1/50 JQ
C2060 1/50 JQ
R2061 4.7k
R2062 4.7k
R2063 10k
R2064 10k
R2065 560 (1/2w) LMF
C2061 10/16 JQ
D2061 UDZ5.6B
R2059 47
(MR)
GS (CHASSIS)
JA2001
AKB7073
DVD/LD L
DVD/LD R
TV L
TV R
SAT L
SAT R
(DVD)
R2001 1M
R2002
R2003 220
R2004 220
R2005 R2006
R2007 220
R2008 220
R2009 R2010
R2011 220
R2012 220
C2019 0.01 YB
(REC)
R2013 1k
R2014 1k
R2015 R2016
R2017 220
R2018 220
C2020 0.01 YB
R2019 1k
R2020 1k
R2021 R2022
R2023 220
R2024 220
C2021 0.01 YB
R2025 1k
R2026 1k
R2027 R2028
R2029 220
R2030 220
C2022 0.01 YB
VCR1 REC L
VCR1 REC R
2002 (1/2) AKB7075
VCR1 PLAY L
VCR1 PLAY R
2002 (2/2) AKB7075
VCR2 REC L
VCR2 REC R
2003 (1/2) AKB7075
VCR2 PLAY L
VCR2 PLAY R
2003 (2/2) AKB7075
VCR3 REC L
VCR3 REC R
2004 (1/2) AKB7075
VCR3 PLAY L
VCR3 PLAY R
2004 (2/2) AKB7075
VSX-49TX ONLY
VSX-47TX ONLY
R2081 R2080
R2089 R2088
A/V Function Selector
(MIC)
(FV)
(F)
R2092 0
R2093 0
R2094 0
R2095 0
R2031 47
R2032 47
C2024 YB 0.047
C2023 YB 0.047
IC2001 TC9164AF
VDD VSS DT CK ST DG
DVD TV SAT VCR1 VIDEO FUNC VCR2 VCR3 VIDEO FUNC FRONT V MIC VIDEO FUNC
R2056 (F) 220
R2054 220
R2053 220
C2025 100p CH
R2099 0
R2098 0
R2097 0
R2096 0


B A/V I/O ASSY
(VSX-49TX : AWX7938)
(VSX-47TX : AWX7939)
IC2051 (1/2)
UPC4570C
IC2051 (2/2)
C2055 47/25 AT
C2056 47/25 AT
C2053 100p CH
C2054 100p CH
R2057 22
R2058 22
C2051 1/50 JQ
C2052 1/50 JQ
R2053 220
R2054 220
R2055 470k
R2056 470k
R2051 470k
R2052 470k
R2060 47
R2037 47
R2038 47
C2028 0.047 YB
C2027 0.047 YB
IC2002
TC9162AF
VDD
VSS
VCR1
SAT
MR OUT
TV
DVD
REC 1
REC 2
REC IN
REC 3
DT
CK
ST
DG
R2041 220
R2040 220
R2039 220
C2029 100p CH
A/V MR Function Selector
CN2002
17PS-JE
SR IN
RMC
SR OUT
MR MUTE
M62429DT
M62429CLK
TC9164XDT
TC9164XCLK
TC9164xSTB1
DG
DG
VE15I
AG
AG
VC15I
MIC GND
MIC
R CN5821
D2052
D2053
R2077 0
C2082 0.047
IC2053 (1/2)
BA4558F-HT
IC2053 (2/2)
C2080 10/25 AT
C2079 10/25 AT
R2078 100
R2079 100
R2068 100k
R2036 100k
R2050 22
R2049 22
C2076 1/50 AT
C2075 1/50 AT
R2046 220
R2045 220
C2078 100p
C2077 100p
R2048 470k
R2047 470k
R2044 470k
R2043 470k
C2083 0.047
CN2001
KP200TA17L
AG
REC R
AG
REC L
AG
FV L
AG
FV R
AG
MR OUT L
AG
MR OUT R
AG
VFUNC L
AG
VFUNC R
AG
R CN5820
(MR)
(MIC)
(FV)
(F)
(DVD)
(REC)

(DVD) ⇨ : AUDIO SIGNAL ROUTE (DVD)

(REC) ⇨ : AUDIO SIGNAL ROUTE (REC)

(MR) ⇨ : AUDIO SIGNAL ROUTE (MR)

(MIC) ⇨ : AUDIO SIGNAL ROUTE (MIC)

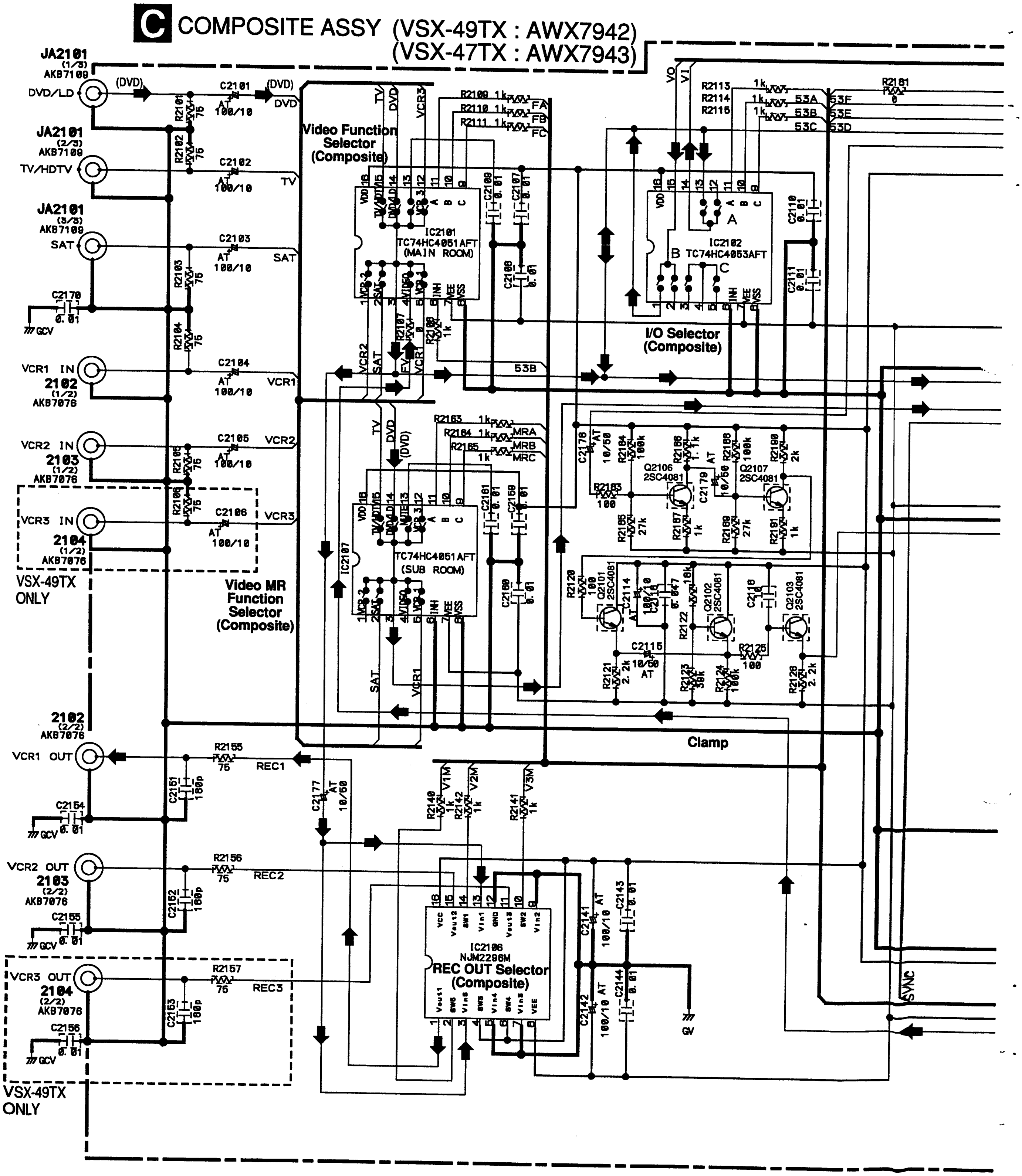
(F) ⇨ : AUDIO SIGNAL ROUTE (F)

(FV) ⇨ : AUDIO SIGNAL ROUTE (FV)

NOTES

1. RESISTORS
   Unit: k-kΩ M-MΩ or unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
   Rated Voltage: 50V except for electrolytic capacitors.
   AT : CEAT , JQ : CEJQ
3. DIODES
   Indicated in 1SS355.

3.5 COMPOSITE ASSY

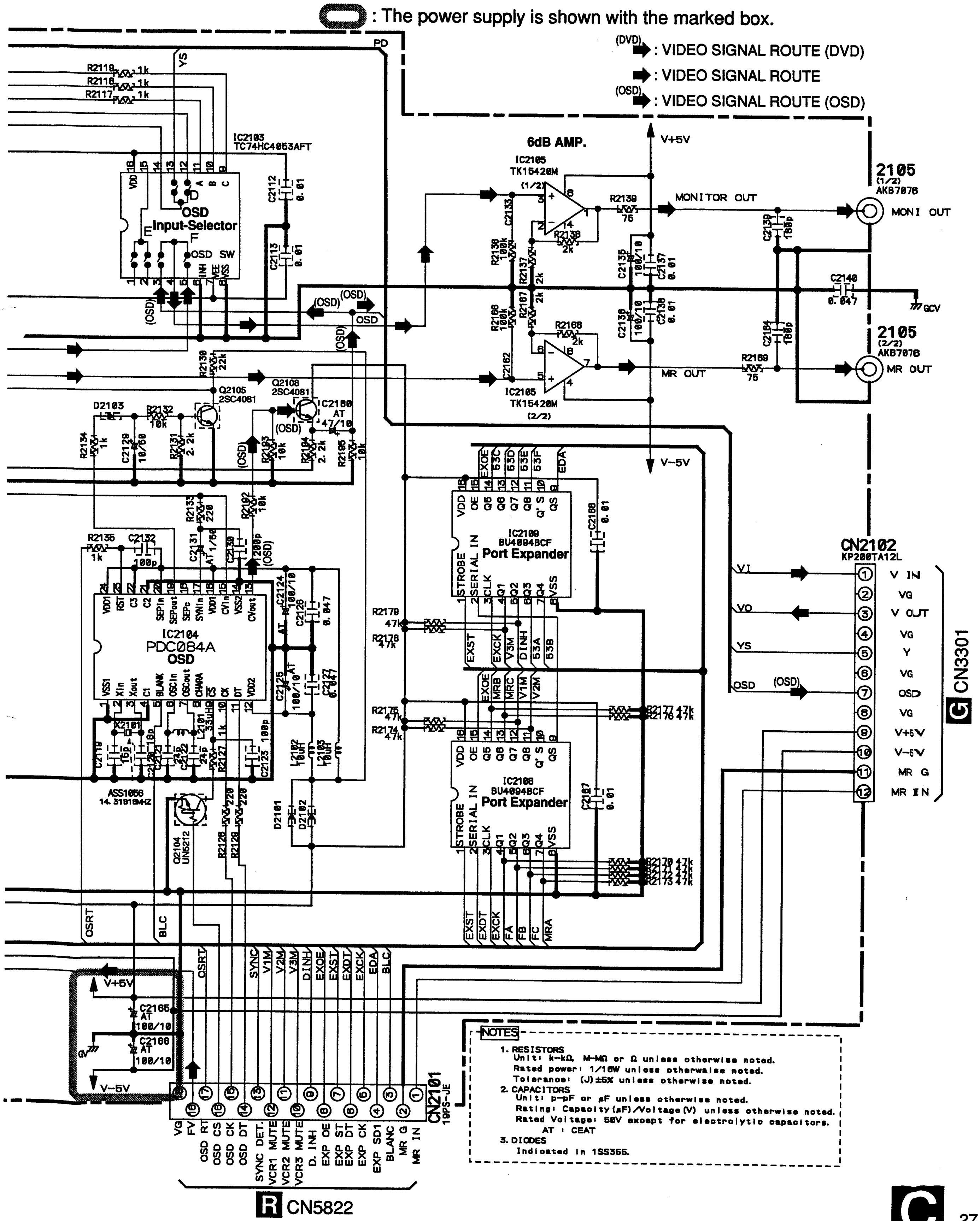

C COMPOSITE ASSY (VSX-49TX : AWX7942)
(VSX-47TX : AWX7943)
JA2101 (1/3) AKB7109
DVD/LD
(DVD)
JA2101 (2/3) AKB7109
TV/HDTV
JA2101 (3/3) AKB7109
SAT
C2170 0.01
GCV
VCR1 IN 2102 (1/2) AKB7076
VCR2 IN 2103 (1/2) AKB7076
VCR3 IN 2104 (1/2) AKB7076
VSX-49TX ONLY
R2101 75
R2102 75
R2103 75
R2104 75
R2105 75
R2106 75
C2101 AT 100/10
C2102 AT 100/10
C2103 AT 100/10
C2104 AT 100/10
C2105 AT 100/10
C2106 AT 100/10
DVD
TV
SAT
VCR1
VCR2
VCR3
Video Function Selector (Composite)
IC2101 TC74HC4051AFT (MAIN ROOM)
R2109 1k FA
R2110 1k FB
R2111 1k FC
C2109 0.01
C2107 0.01
C2108 0.01
R2107 0
R2108 1k
53B
Video MR Function Selector (Composite)
TC74HC4051AFT (SUB ROOM)
IC2107
R2163 1k MRA
R2164 1k MRB
R2165 1k MRC
C2161 0.01
C2169 0.01
C2160 0.01
(DVD)
VO
VI
R2113 1k 53A 53F
R2114 1k 53B 53E
R2115 1k 53C 53D
R2181 0
IC2102 TC74HC4053AFT
I/O Selector (Composite)
C2110 0.01
C2111 0.01
C2178 AT 10/50
R2184 100k
R2186 1.1k
R2188 100k
R2190 2k
R2183 100
Q2106 2SC4081
C2179 AT 10/50
Q2107 2SC4081
R2185 27k
R2187 1k
R2189 27k
R2191 1k
R2120 100
Q2101 2SC4081
C2114 AT 100/10
C2116 0.047
18k
Q2102 2SC4081
C2118 10
Q2103 2SC4081
R2122
C2115 10/50 AT
R2125 100
R2121 2.2k
R2123 39k
R2124 100k
R2126 2.2k
Clamp
2102 (2/2) AKB7076
VCR1 OUT
R2155 75 REC1
C2151 180p
C2154 0.01
GCV
VCR2 OUT 2103 (2/2) AKB7076
R2156 75 REC2
C2152 180p
C2155 0.01
VCR3 OUT 2104 (2/2) AKB7076
R2157 75 REC3
C2153 180p
C2156 0.01
VSX-49TX ONLY
C2177 AT 10/50
R2140 1k V1M
R2142 1k V2M
R2141 1k V3M
IC2106 NJM2296M
REC OUT Selector (Composite)
Vcc Vout2 SW1 Vin1 GND Vout3 SW2 Vin2
Vout1 SW3 Vin5 SW5 Vin4 SW4 Vin3 VEE
C2141 AT 100/10
C2143 0.01
C2142 AT 100/10
C2144 0.01
GV
SYNC

: The power supply is shown with the marked box.

(DVD) : VIDEO SIGNAL ROUTE (DVD)

: VIDEO SIGNAL ROUTE

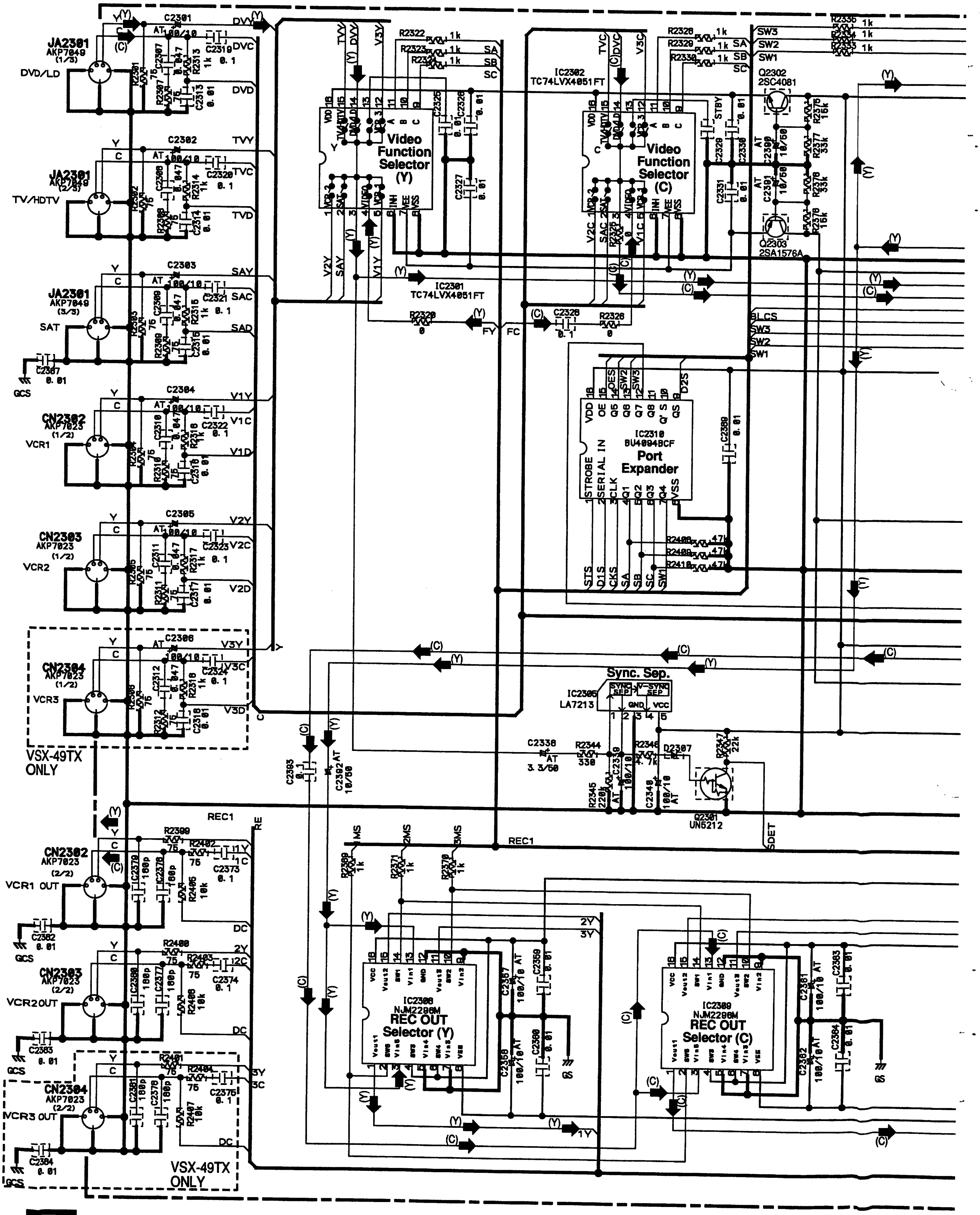
(OSD) : VIDEO SIGNAL ROUTE (OSD)


A
B
C
D
PD
YS
R2118 1k
R2116 1k
R2117 1k
IC2103 TC74HC4053AFT
OSD Input-Selector
OSD SW
C2112 0.01
C2113 0.01
6dB AMP.
IC2105 TK15420M (1/2)
IC2105 TK15420M (2/2)
V+5V
V-5V
R2139 75
MONITOR OUT
R2138 2k
R2136 100k
R2137 2k
C2133
C2135 100/10
C2137 0.01
C2139 180p
C2140 0.047
GCV
2105 (1/2) AKB7078 MONI OUT
2105 (2/2) AKB7078 MR OUT
R2168 100k
R2167 2k
R2166 2k
C2136 100/10
C2138 0.01
C2162
C2164 180p
R2169 75
MR OUT
R2130 22k
Q2105 2SC4081
Q2106 2SC4081
C2180 AT 47/10
D2103
R2132 10k
R2134 1k
C2129 10/50
R2131 2.2k
R2103 10k
R2104 2.2k
R2105 10k
R2133 220
R2102 10k
R2135 1k
C2132 100p
C2131 AT 1/50
C2130 1200p
IC2104 PDC084A OSD
C2124 100/10
C2126 0.047
C2125 100/10 AT
C2127 0.047
X2101 ASS1056 14.31818MHZ
C2118
C2120 15p
C2121 18p
C2122 24p
L2101 33uH
R2127 1k
C2123 100p
L2102 10uH
L2103 10uH
D2101
D2102
Q2104 UN5212
R2128 220
R2129 220
IC2109 BU4094BCF Port Expander
IC2108 BU4094BCF Port Expander
C2188 0.01
C2187 0.01
R2179 47k
R2178 47k
R2175 47k
R2174 47k
R2177 47k
R2176 47k
R2170 47k
R2171 47k
R2172 47k
R2173 47k
EXOE
53C
53D
53E
53F
EDA
EXST
EXCK
V3M
DINH
53A
53B
MRB
MRC
V1M
V2M
EXDT
FA
FB
FC
MRA
OSRT
BLC
CN2102 KP200TA12L
VI
VO
OSD
① V IN
② VG
③ V OUT
④ VG
⑤ Y
⑥ VG
⑦ OSD
⑧ VG
⑨ V+5V
⑩ V-5V
⑪ MR G
⑫ MR IN
G CN3301
V+5V
C2165 AT 100/10
C2166 AT 100/10
GV
V-5V
SYNC
V1M
V2M
V3M
DINH
EXOE
EXST
EXDT
EXCK
EDA
BLC
CN2101 18PS-JE
VG
FV
OSD RT
OSD CS
OSD CK
OSD DT
SYNC DET.
VCR1 MUTE
VCR2 MUTE
VCR3 MUTE
D. INH
EXP OE
EXP ST
EXP DT
EXP CK
EXP SD1
BLANC
MR G
MR IN
R CN5822

NOTES

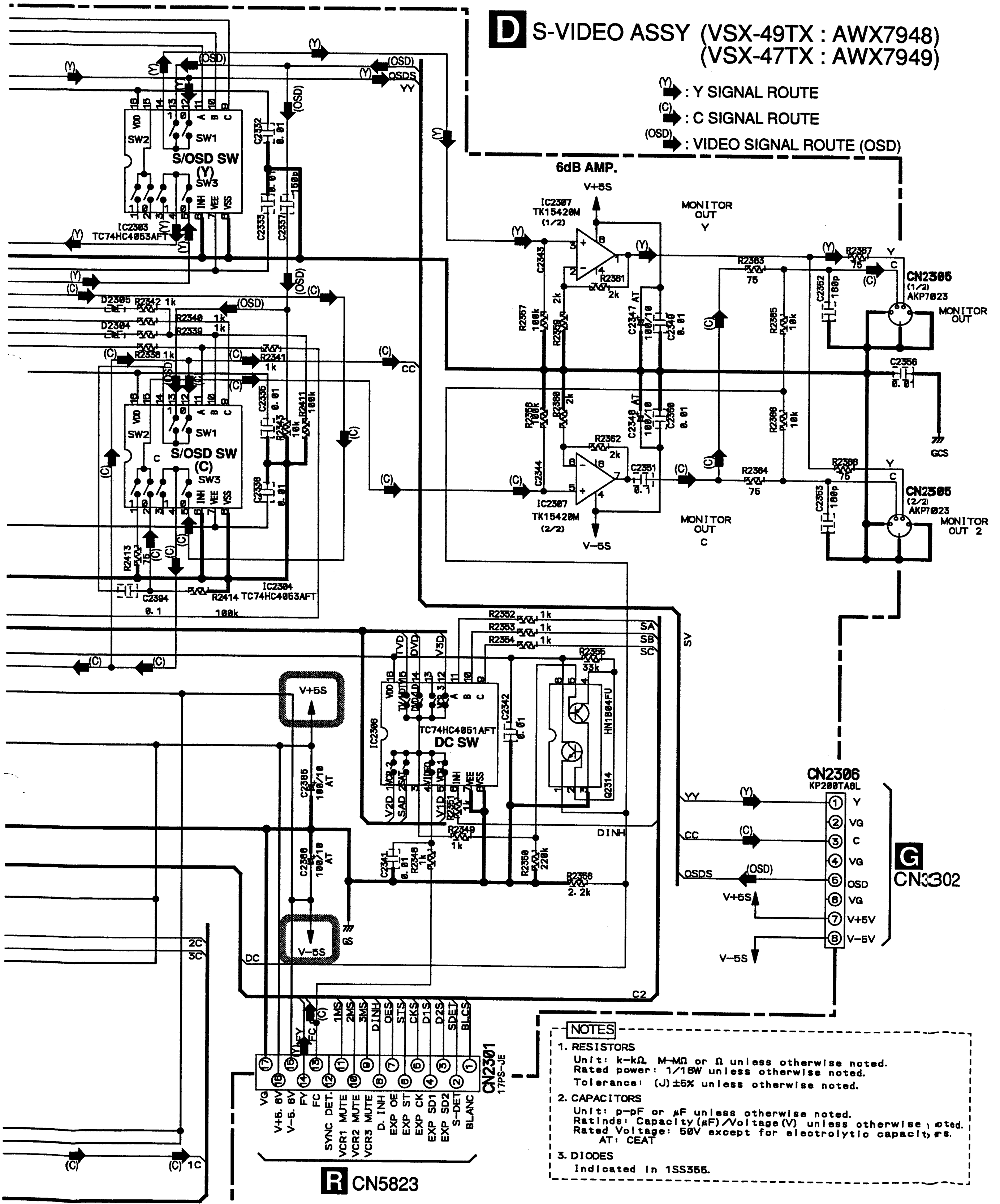
1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwaise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or µF unless otherwise noted.
   Rating: Capacity (µF)/Voltage (V) unless otherwise noted.
   Rated Voltage: 50V except for electrolytic capacitors.
   AT : CEAT
3. DIODES
   Indicated in 1SS355.

3.6 S-VIDEO ASSY


JA2301
AKP7049
(1/3)
DVD/LD
JA2301
AKP7049
(2/3)
TV/HDTV
JA2301
AKP7049
(3/3)
SAT
CN2302
AKP7023
(1/2)
VCR1
CN2303
AKP7023
(1/2)
VCR2
CN2304
AKP7023
(1/2)
VCR3
VSX-49TX ONLY
CN2302
AKP7023
(2/2)
VCR1 OUT
CN2303
AKP7023
(2/2)
VCR2OUT
CN2304
AKP7023
(2/2)
VCR3 OUT
VSX-49TX ONLY
GCS
C2307 0.01
C2382 0.01
C2383 0.01
C2384 0.01
DVY DVC DVD
TVY TVC TVD
SAY SAC SAD
V1Y V1C V1D
V2Y V2C V2D
V3Y V3C V3D
REC1
IC2301
TC74LVX4051FT
Video Function Selector (Y)
IC2302
TC74LVX4051FT
Video Function Selector (C)
R2322 1k
R2323 1k
R2324 1k
R2328 1k
R2329 1k
R2330 1k
SA SB SC
SW3 SW2 SW1
R2335 1k
R2334 1k
R2333 1k
Q2302
2SC4081
Q2303
2SA1576A
R2376 15k
R2377 33k
R2378 33k
R2379 15k
C2390 10/50
C2391 10/50
FY FC
R2320 0
C2328 0.1
R2326 0
BLCS
IC2310
BU4094BCF
Port Expander
STROBE SERIAL IN CLK
VDD OE Q5 Q6 Q7 Q8 Q'S QS VSS Q1 Q2 Q3 Q4
R2408 47k
R2409 47k
R2410 47k
STS D1S CKS SA SB SC SW1
Sync. Sep.
IC2306
LA7213
SYNC SEP
V-SYNC SEP
GND VCC
C2338 3.3/50
R2344 330
R2345 220k
R2346 4.7k
D2307
R2347 22k
Q2301
UN5212
SDET
C2393 0.1
C2392 10/50
1MS 2MS 3MS
R2369 1k
R2371 1k
R2370 1k
IC2308
NJM2286M
REC OUT Selector (Y)
IC2309
NJM2286M
REC OUT Selector (C)
C2357 100/10
C2359 0.01
C2358 100/10
C2360 0.01
C2361 100/10
C2363 0.01
C2362 100/10
C2364 0.01
GS
2Y 3Y 1Y 1C 2C 3C
DC
(Y) (C)

D S-VIDEO ASSY (VSX-49TX : AWX7948) (VSX-47TX : AWX7949)

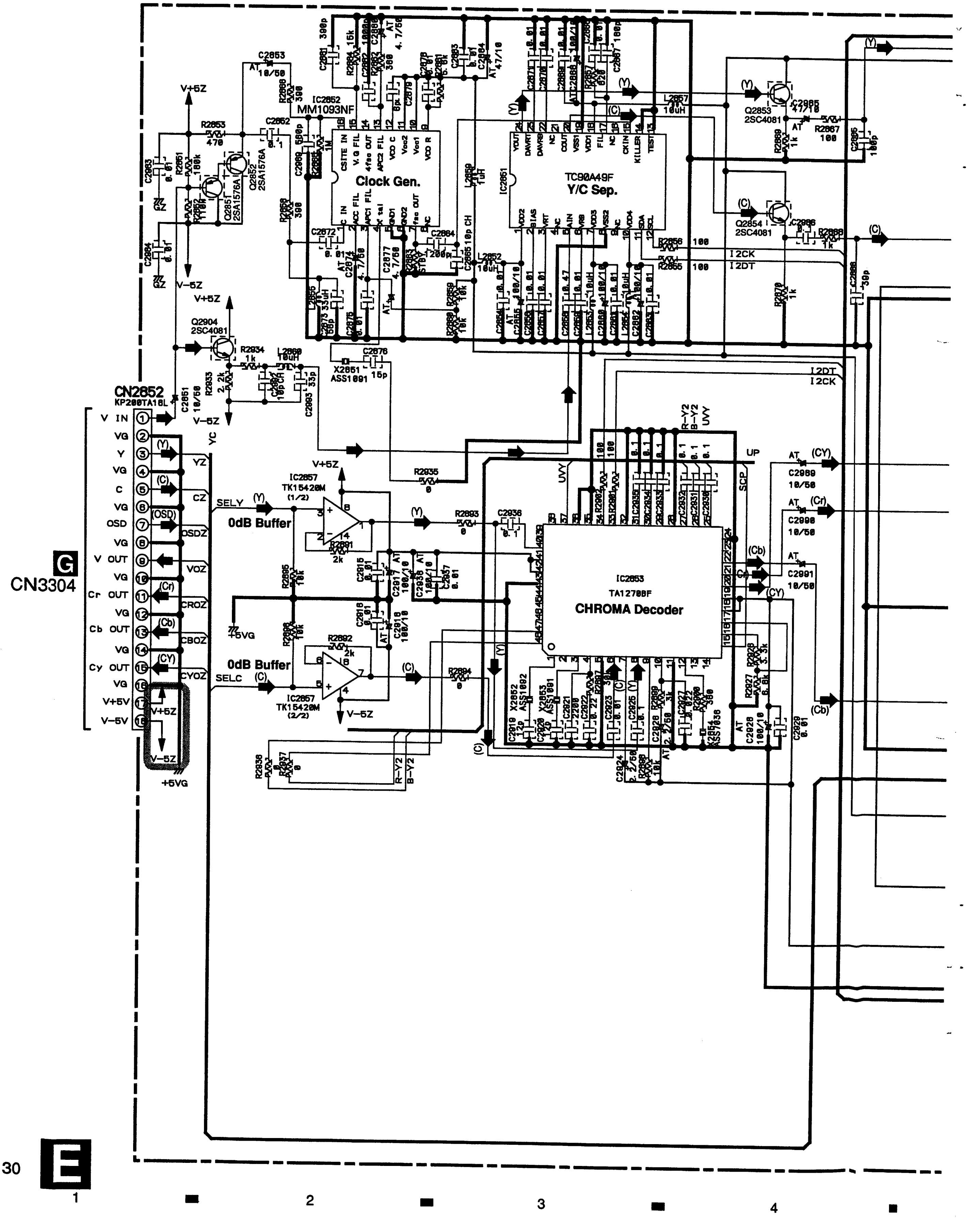
(Y) : Y SIGNAL ROUTE
(C) : C SIGNAL ROUTE
(OSD) : VIDEO SIGNAL ROUTE (OSD)


6dB AMP.
IC2303 TC74HC4053AFT
S/OSD SW (Y)
SW1
SW2
SW3
IC2304 TC74HC4053AFT
S/OSD SW (C)
IC2307 TK15420M (1/2)
IC2307 TK15420M (2/2)
V+5S
V-5S
MONITOR OUT Y
MONITOR OUT C
CN2305 (1/2) AKP7023
CN2305 (2/2) AKP7023
MONITOR OUT
MONITOR OUT 2
GCS
IC2308 TC74HC4051AFT
DC SW
Q2314 HN1B04FU
CN2306 KP200TA8L
Y
VG
C
VG
OSD
VG
V+5V
V-5V
G CN3302
CN2301 17PS-JE
VG
V+5.6V
V-5.6V
FY
FC
SYNC DET.
VCR1 MUTE
VCR2 MUTE
VCR3 MUTE
D. INH
EXP OE
EXP ST
EXP CK
EXP SD1
EXP SD2
S-DET
BLANC
R CN5823
GS

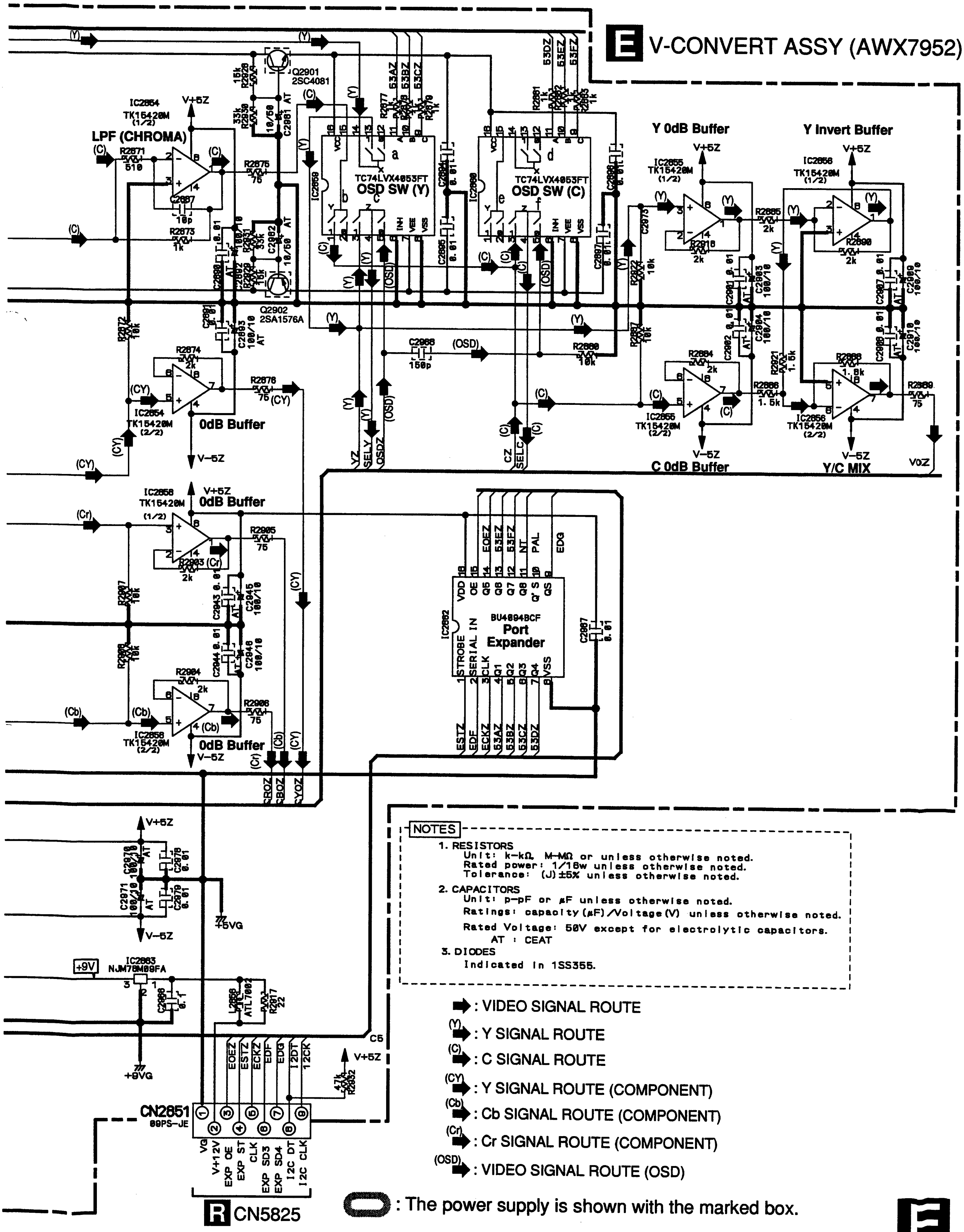
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
AT: CEAT
3. DIODES
Indicated in 1SS355.

▭ : The power supply is shown with the marked box.

3.7 V-CONVERT ASSY (VSX-49TX ONLY)


IC2852
MM1093NF
Clock Gen.
IC2851
TC90A49F
Y/C Sep.
IC2853
TA1270BF
CHROMA Decoder
IC2857
TK15420M
0dB Buffer
0dB Buffer
Q2851
Q2852
2SA1576A
Q2853
2SC4081
Q2854
2SC4081
Q2904
2SC4081
X2851
ASS1091
CN2852
KP200TA16L
G
CN3304
V IN
VG
Y
VG
C
VG
OSD
VG
V OUT
VG
Cr OUT
VG
Cb OUT
VG
Cy OUT
VG
V+5V
V-5V
V+5Z
V-5Z
+5VG
SELY
SELC
I2CK
I2DT
UP
SCP
UVY
R-Y2
B-Y2
(Y)
(C)
(Cr)
(Cb)
(CY)
(OSD)

E V-CONVERT ASSY (AWX7952)


LPF (CHROMA)
IC2854 TK15420M (1/2)
V+5Z
R2871 510
R2873 1k
C2887 10p
R2875 75
Q2901 2SC4081
Q2902 2SA1576A
R2872 10k
R2874 2k
R2876 75
IC2854 TK15420M (2/2)
0dB Buffer
V-5Z
IC2859 TC74LVX4053FT OSD SW (Y)
IC2860 TC74LVX4053FT OSD SW (C)
53AZ
53BZ
53CZ
53DZ
53EZ
53FZ
C2868 150p
(OSD)
R2880 10k
Y 0dB Buffer
Y Invert Buffer
IC2855 TK15420M (1/2)
IC2856 TK15420M (1/2)
R2885 2k
R2890 2k
R2884 2k
R2886 1.5k
R2888 1.8k
R2889 75
IC2855 TK15420M (2/2)
IC2856 TK15420M (2/2)
C 0dB Buffer
Y/C MIX
VOZ
YZ
SELY
OSDZ
CZ
SELC
IC2858 TK15420M (1/2)
0dB Buffer
R2905 75
R2903 2k
R2907 10k
R2908 10k
R2904 2k
R2906 75
IC2858 TK15420M (2/2)
0dB Buffer
CROZ
CBOZ
CYOZ
IC2862 BU4094BCF Port Expander
STROBE
SERIAL IN
CLK
VDD
OE
VSS
EOEZ
53EZ
53FZ
NT
PAL
EDG
ESTZ
EDF
ECKZ
53AZ
53BZ
53CZ
53DZ
C2867 0.01
V+5Z
V-5Z
C2970
C2976 0.01
C2971 100/10
C2979 0.01
+5VG
+9V
IC2863 NJM78M09FA
C2980 0.1
L2856 ATL7002
R2917 22
+9VG
C5
R2932 47k
CN2851 09PS-JE
EOEZ
ESTZ
ECKZ
EDF
EDG
I2DT
I2CK
VG
V+12V
EXP OE
EXP ST
CLK
EXP SD3
EXP SD4
I2C DT
I2C CLK
R CN5825

NOTES

1. RESISTORS
   Unit: k-kΩ, M-MΩ or unless otherwise noted.
   Rated power: 1/16w unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Ratings: capacity (μF)/Voltage (V) unless otherwise noted.
   Rated Voltage: 50V except for electrolytic capacitors.
   AT : CEAT
3. DIODES
   Indicated in 1SS355.

➡ : VIDEO SIGNAL ROUTE

(Y)➡ : Y SIGNAL ROUTE

(C)➡ : C SIGNAL ROUTE

(CY)➡ : Y SIGNAL ROUTE (COMPONENT)

(Cb)➡ : Cb SIGNAL ROUTE (COMPONENT)

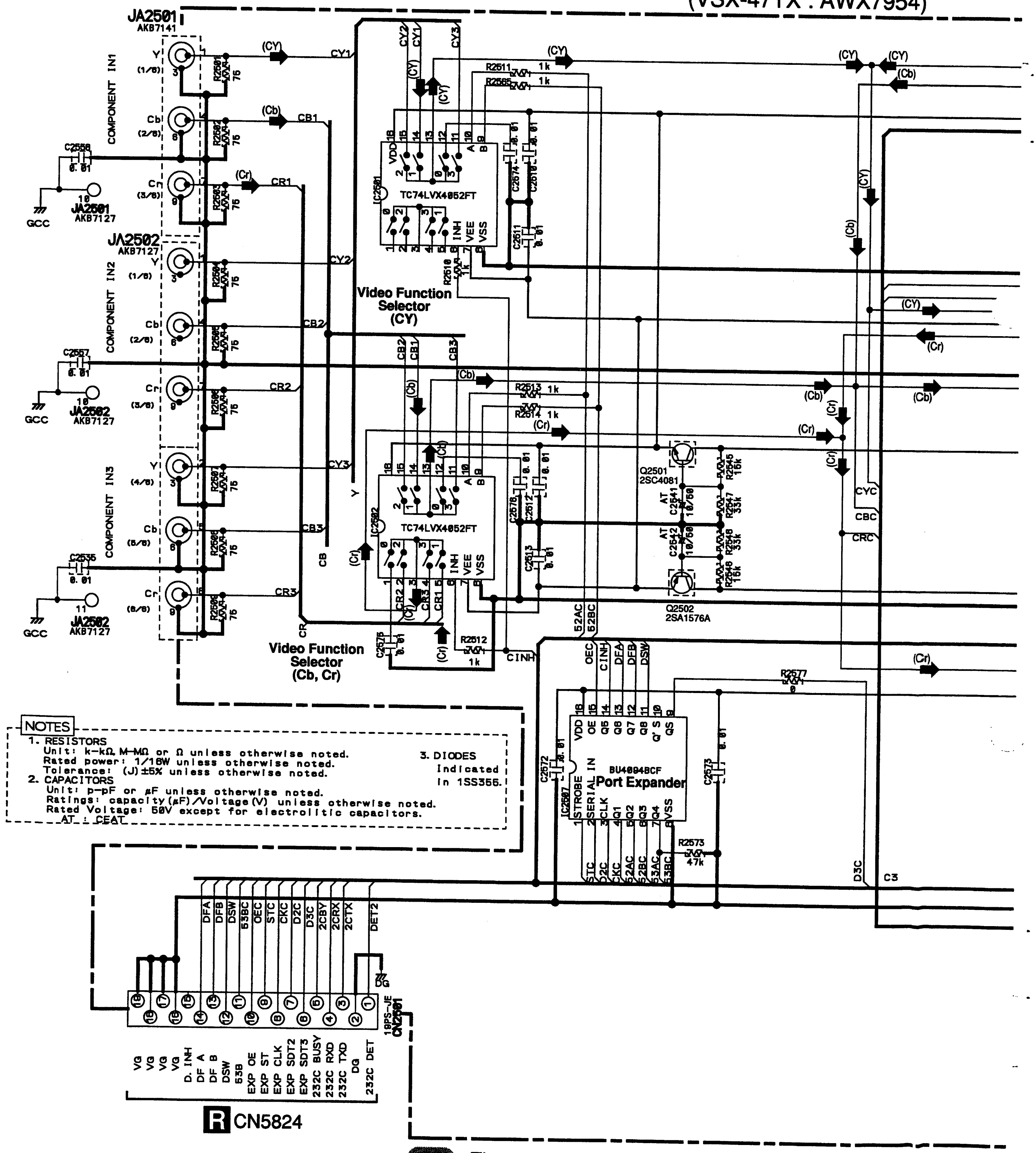
(Cr)➡ : Cr SIGNAL ROUTE (COMPONENT)

(OSD)➡ : VIDEO SIGNAL ROUTE (OSD)

▭ : The power supply is shown with the marked box.

3.8 COMPONENT and VIDEO CONNECT ASSYS

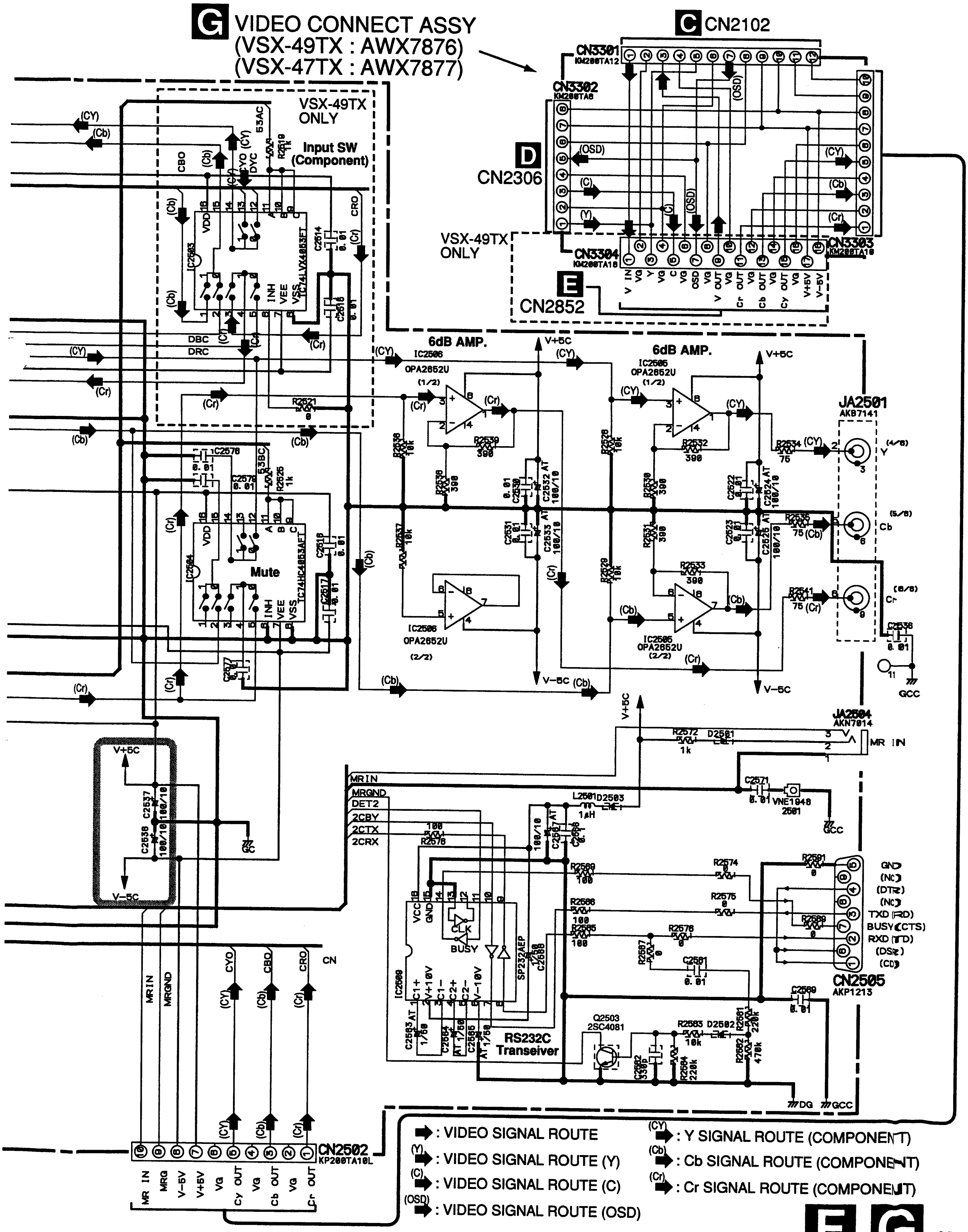
F COMPONENT ASSY (VSX-49TX : AWX7953) (VSX-47TX : AWX7954)


JA2501
AKB7141
COMPONENT IN1
Y (1/8)
Cb (2/8)
Cr (3/8)
C2556 0.01
GCC
JA2501 AKB7127
R2501 75
R2502 75
R2503 75
JA2502 AKB7127
COMPONENT IN2
C2557 0.01
JA2502 AKB7127
R2504 75
R2505 75
R2506 75
COMPONENT IN3
Y (4/8)
Cb (5/8)
Cr (6/8)
C2535 0.01
R2507 75
R2508 75
R2509 75
(CY) (Cb) (Cr)
CY1 CB1 CR1 CY2 CB2 CR2 CY3 CB3 CR3
CY2 CY1 CY3
R2511 1k
R2565 1k
TC74LVX4052FT
IC2501
C2574 0.01
C2610 0.01
C2611 0.01
R2510 1k
VDD INH VEE VSS
Video Function Selector (CY)
CB2 CB1 CB3
R2513 1k
R2514 1k
IC2502
TC74LVX4052FT
C2578 C2612 0.01
C2613 0.01
C2575 0.01
R2512 1k
CINH
Video Function Selector (Cb, Cr)
Q2501 2SC4081
Q2502 2SA1576A
C2541 10/50 AT
C2542 10/50 AT
R2545 15k
R2547 33k
R2546 33k
R2548 15k
52AC 52BC
OEC CINH DFA DFB DSW
R2577 0
IC2507
BU4094BCF
Port Expander
C2572 0.01
C2573 0.01
STROBE SERIAL IN CLK Q1 Q2 Q3 Q4 VSS
VDD OE Q5 Q6 Q7 Q8 Q'S QS
R2573 47k
STC D2C CKC 52AC 52BC 53AC 53BC
D3C C3
CYC CBC CRC
DFA DFB DSW 53BC OEC STC CKC D2C D3C 2CBY 2CRX 2CTX DET2
DG
19PS-JE CN2501
VG VG VG VG D. INH DF A DF B DSW 53B EXP OE EXP ST EXP CLK EXP SDT2 EXP SDT3 232C BUSY 232C RXD 232C TXD DG 232C DET
R CN5824

NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: capacity (μF)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V except for electrolitic capacitors.
AT : CEAT
3. DIODES
Indicated in 1SS355.

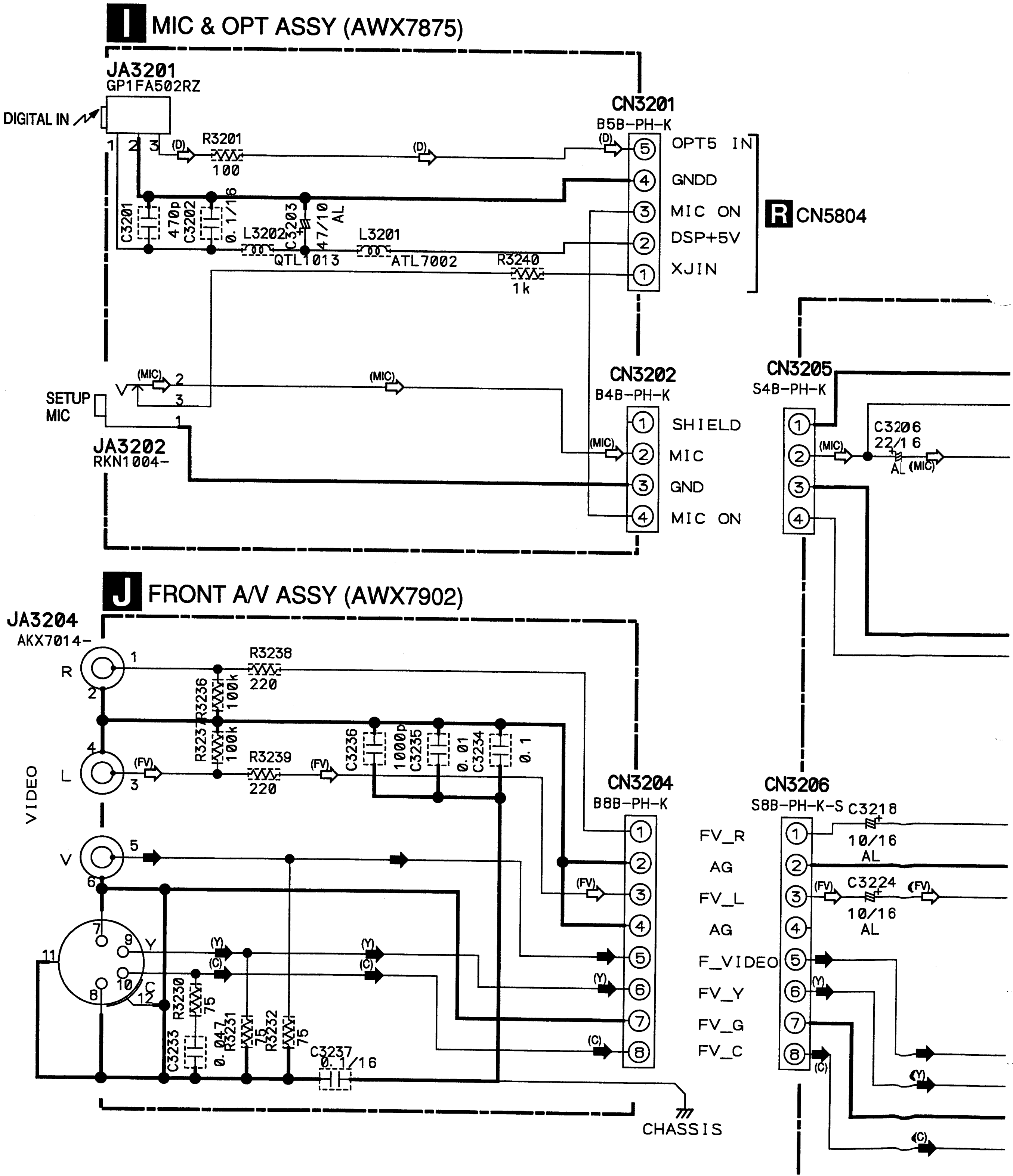
▭ : The power supply is shown with the marked box.

G VIDEO CONNECT ASSY
(VSX-49TX : AWX7876)
(VSX-47TX : AWX7877)


C CN2102
CN3301 KM200TA12
CN3302 KM200TA8
D CN2306
CN3303 KM200TA18
CN3304 KM200TA18
E CN2852
VSX-49TX ONLY
(OSD)
(CY)
(Cb)
(Cr)
(C)
(Y)
V IN
VG
Y
VG
C
VG
OSD
VG
V OUT
VG
Cr OUT
VG
Cb OUT
VG
Cy OUT
VG
V+5V
V-5V
Input SW (Component)
IC2503 TC74LVX4053FT
CBO
CYO
DYC
53AC
R2519 1k
C2514 0.01
C2515 0.01
CRO
VDD
INH
VEE
VSS
DBC
DRC
R2521 0
IC2578 0.01
C2579 0.01
53BC
R2525 1k
IC2504 TC74HC4053AFT
Mute
C2516 0.01
C2517 0.01
C2527
6dB AMP.
IC2506 OPA2652U (1/2)
IC2506 OPA2652U (2/2)
IC2505 OPA2652U (1/2)
IC2505 OPA2652U (2/2)
V+5C
V-5C
R2536 10k
R2538 390
R2539 390
R2537 10k
C2530 0.01
C2531 0.01
C2532 AT 100/10
C2533 100/10
R2528 10k
R2530 390
R2531 390
R2532 390
R2533 390
R2529 10k
C2522 0.01
C2523 0.01
C2524 AT 100/10
C2525 AT 100/10
R2534 75
R2535 75
R2541 75
JA2501 AKB7141
Y
Cb
Cr
(4/6)
(5/6)
(6/6)
C2536 0.01
GCC
V+5C
V-5C
C2537 100/10
C2538 100/10
GC
JA2504 AKN7014
R2572 1k
D2501
MR IN
C2571 0.01
VNE1048 2501
MRIN
MRGND
DET2
2CBY
2CTX
2CRX
R2578 100
L2501 1µH
D2503
C2567 100/10
C2566 0.1
R2569 100
R2566 100
R2565 100
R2574 0
R2575 0
R2576 0
R2567 0
C2561 0.01
R2581 0
R2580 0
IC2508 SP232AEP
VCC
GND
BUSY
CLK
C1+
V+10V
C1-
C2+
C2-
V-10V
C2568 1/50
C2563 AT 1/50
C2564 AT 1/50
C2565 AT 1/50
RS232C Transeiver
Q2503 2SC4081
C2562 330p
R2563 10k
D2502
R2561 220k
R2562 470k
R2564 220k
C2569 0.01
DG
GCC
GND
(NC)
(DTR)
(NC)
TXD (RD)
BUSY (CTS)
RXD (TD)
(DSR)
(CD)
CN2505 AKP1213
CN
CYO
CBO
CRO
CN2502 KP200TA10L
MR IN
MRG
V-5V
V+5V
VG
Cy OUT
VG
Cb OUT
VG
Cr OUT

➡ : VIDEO SIGNAL ROUTE
(Y) ➡ : VIDEO SIGNAL ROUTE (Y)
(C) ➡ : VIDEO SIGNAL ROUTE (C)
(OSD) ➡ : VIDEO SIGNAL ROUTE (OSD)
(CY) ➡ : Y SIGNAL ROUTE (COMPONENT)
(Cb) ➡ : Cb SIGNAL ROUTE (COMPONENT)
(Cr) ➡ : Cr SIGNAL ROUTE (COMPONENT)

3.9 MIC AMP, MIC & OPT, FRONT A/V and HEADPHONE ASSYS


I MIC & OPT ASSY (AWX7875)
JA3201
GP1FA502RZ
DIGITAL IN
R3201
100
CN3201
B5B-PH-K
OPT5 IN
GNDD
MIC ON
DSP+5V
XJIN
R CN5804
C3201
470p
C3202
0.1/16
C3203
47/10
AL
L3202
QTL1013
L3201
ATL7002
R3240
1k
SETUP MIC
JA3202
RKN1004-
(MIC)
(D)
CN3202
B4B-PH-K
SHIELD
MIC
GND
MIC ON
CN3205
S4B-PH-K
C3206
22/16
AL
J FRONT A/V ASSY (AWX7902)
JA3204
AKX7014-
R
L
V
VIDEO
Y
C
R3238
220
R3236
100k
R3237
100k
R3239
220
(FV)
C3236
1000p
C3235
0.01
C3234
0.1
CN3204
B8B-PH-K
FV_R
AG
FV_L
AG
F_VIDEO
FV_Y
FV_G
FV_C
CN3206
S8B-PH-K-S
C3218
10/16
AL
C3224
10/16
AL
(Y)
(C)
R3230
75
C3233
0.047
R3231
75
R3232
75
C3237
0.1/16
CHASSIS

NOTE

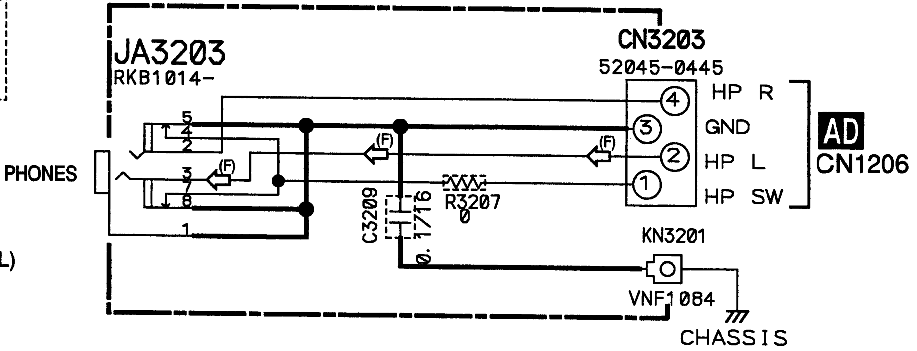
1. RESISTORS
Indicated in ohm 1/16W ±5% tolerance unless otherwise noted k:kΩ, M:MΩ

2. CAPACITORS
Indicated in capacity(µF)/voltage(V) unless otherwise noted p:pF
Indication without voltage is 50V except electrolytic capacitor.
AL:CEAL, CH:CCSRCH

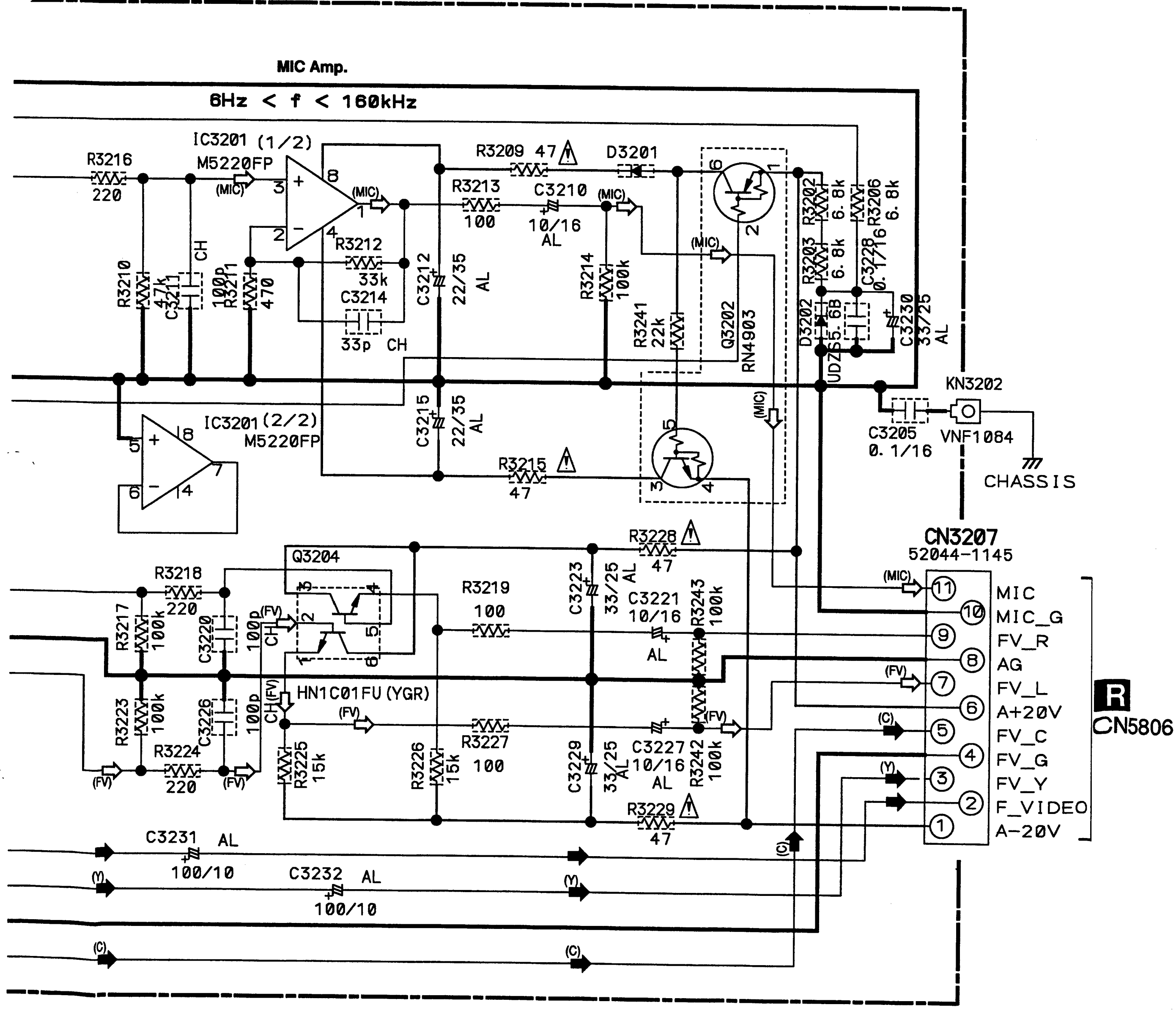
3. DIODE
Diode without indication is 1SS355

- ➡ : VIDEO SIGNAL ROUTE
- (Y)➡ : Y SIGNAL ROUTE
- (C)➡ : C SIGNAL ROUTE
- (D)⇨ : AUDIO SIGNAL ROUTE (DIGITAL)
- (MIC)⇨ : AUDIO SIGNAL ROUTE (MIC)
- (F)⇨ : AUDIO SIGNAL ROUTE (F)
- (FV)⇨ : AUDIO SIGNAL ROUTE (FV)

K HEADPHONE ASSY (AWX7874)

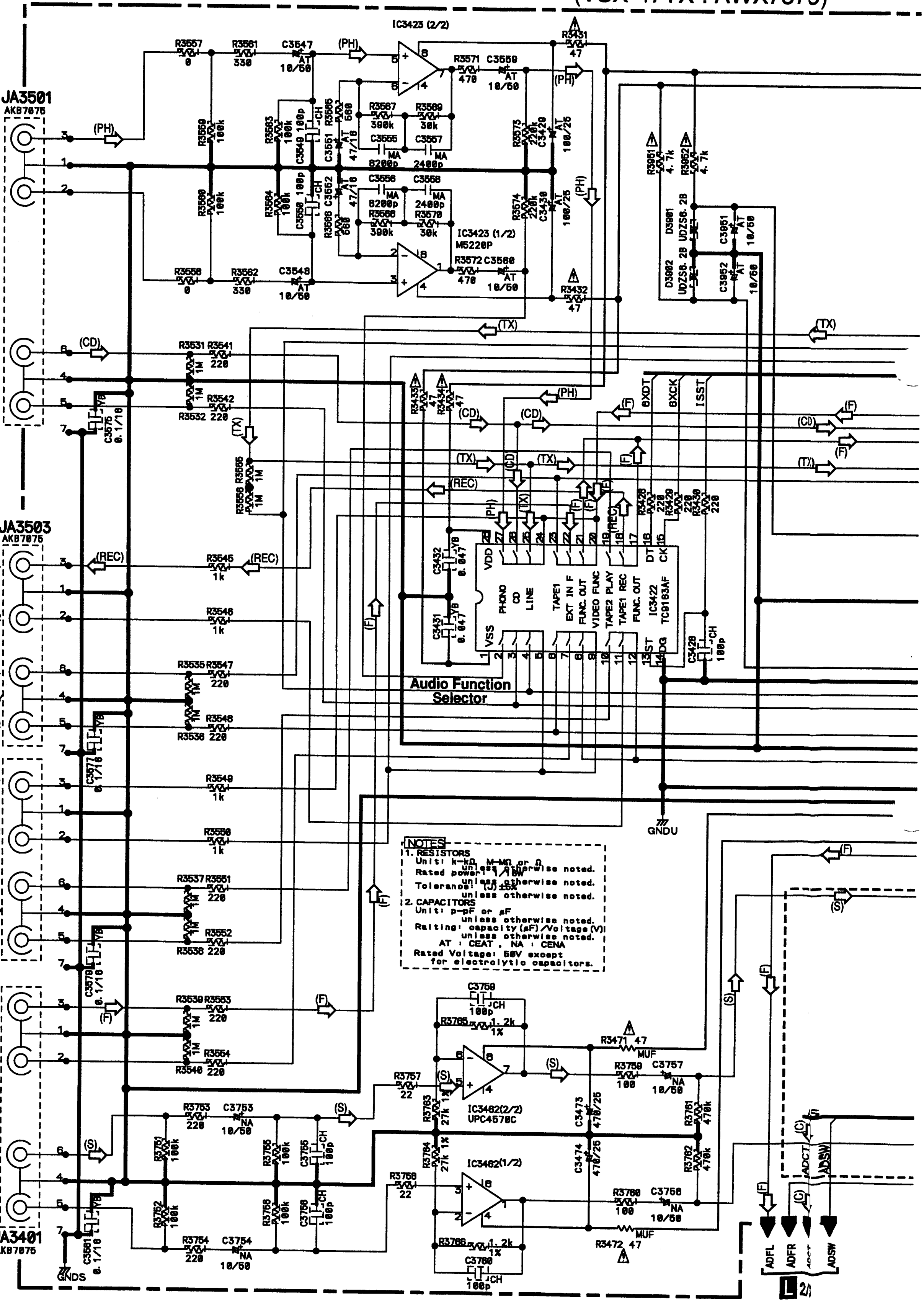

JA3203
RKB1014-
PHONES
5
4
2
3
7
6
1
(F)
C3209
0.1/16
R3207
0
CN3203
52045-0445
④ HP R
③ GND
② HP L
① HP SW
AD
CN1206
KN3201
VNF1084
CHASSIS

H MIC AMP ASSY (AWX7872)

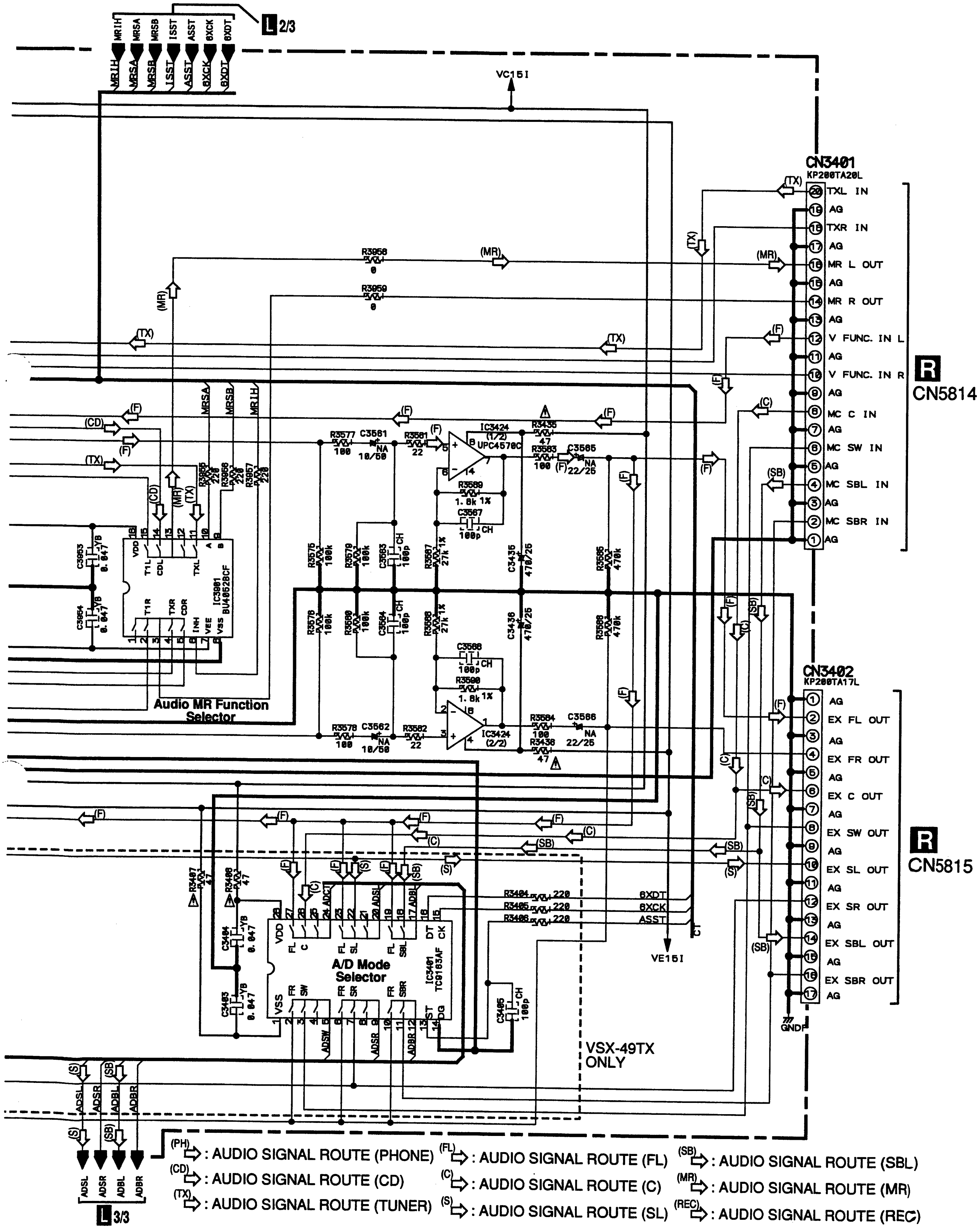

MIC Amp.
6Hz < f < 160kHz
R3216
220
IC3201 (1/2)
M5220FP
(MIC)
R3210
47k
C3211
100p
CH
R3211
470
R3212
33k
C3214
33p CH
C3212
22/35
AL
R3209 47
R3213
100
C3210
10/16
AL
D3201
R3214
100k
R3241
22k
Q3202
RN4903
R3202
6.8k
R3206
6.8k
R3203
6.8k
C3228
0.1/16
D3202
UDZS5.6B
C3230
33/25
AL
KN3202
C3205
0.1/16
VNF1084
CHASSIS
IC3201 (2/2)
M5220FP
C3215
22/35
AL
R3215
47
Q3204
HN1C01FU (YGR)
R3218
220
R3217
100k
C3220
100p
CH
R3223
100k
C3226
100p
CH
R3224
220
(FV)
R3219
100
R3225
15k
R3226
15k
R3227
100
C3223
33/25
AL
C3221
10/16
AL
R3243
100k
R3228
47
C3229
33/25
AL
C3227
10/16
AL
R3242
100k
R3229
47
C3231 AL
100/10
C3232 AL
100/10
(Y)
(C)
CN3207
52044-1145
⑪ MIC
⑩ MIC_G
⑨ FV_R
⑧ AG
⑦ FV_L
⑥ A+20V
⑤ FV_C
④ FV_G
③ FV_Y
② F_VIDEO
① A-20V
R
CN5806

3.10 ANALOG IN & A/D ASSY (1/3)

L 1/3 ANALOG IN & A/D ASSY (VSX-49TX : AWX7878)
(VSX-47TX : AWX7879)


JA3501
AKB7075
PHONO
L
R
CD
JA3503
AKB7075
TAPE1 REC
TAPE1 PLAY
JA3504
AKB7075
TAPE2 REC
TAPE2 PLAY
FL IN
FR IN
SL IN
SR IN
JA3401
AKB7075
GNDS
GNDU
(PH)
(CD)
(TX)
(REC)
(F)
(S)
(C)
IC3423 (2/2)
IC3423 (1/2)
M5220P
R3557 0
R3561 330
C3547 AT 10/50
R3558 0
R3562 330
C3548 AT 10/50
R3559 100k
R3560 100k
R3563 100k
R3564 100k
C3549 100p CH
C3550 100p CH
C3551 AT 47/16
C3552 AT 47/16
R3565 680
R3566 680
R3567 390k
R3568 390k
C3555 MA 8200p
C3556 MA 8200p
R3569 30k
R3570 30k
C3557 MA 2400p
C3558 MA 2400p
R3571 470
C3559 AT 10/50
R3572 470
C3560 AT 10/50
R3573 220k
R3574 220k
C3429 AT 100/25
C3430 AT 100/25
R3431 47
R3432 47
R3951 4.7k
R3952 4.7k
D3901 UDZS8.2B
D3902 UDZS8.2B
C3951 AT 10/50
C3952 AT 10/50
R3531 1M
R3541 220
R3532 1M
R3542 220
C3576 0.1/16
R3555 1M
R3556 1M
R3433 47
R3434 47
C3432 0.047
C3431 0.047
R3545 1k
R3546 1k
R3535 1M
R3547 220
R3536 1M
R3548 220
C3577 0.1/16
R3549 1k
R3550 1k
R3537 1M
R3551 220
R3538 1M
R3552 220
C3578 0.1/16
R3539 1M
R3553 220
R3540 1M
R3554 220
R3428 220
R3429 220
R3430 220
C3428 CH 100p
BXDT
BXCK
ISST
VDD
VSS
PHONO
CD
LINE
TAPE1
EXT IN F
FUNC. OUT
VIDEO FUNC
TAPE2 PLAY
TAPE1 REC
FUNC. OUT
DT
CK
ST
DG
IC3422
TC9163AF
Audio Function Selector
C3759 CH 100p
R3765 1.2k 1%
R3471 47 MUF
R3757 22
R3759 100
C3757 NA 10/50
IC3462(2/2)
UPC4570C
IC3462(1/2)
R3763 27k 1%
R3764 27k 1%
C3473 470/25
C3474 470/25
R3761 470k
R3762 470k
R3753 220
C3753 NA 10/50
R3751 100k
R3752 100k
R3755 100k
R3756 100k
C3755 CH 100p
C3756 CH 100p
R3754 220
C3754 NA 10/50
R3758 22
R3760 100
C3758 NA 10/50
R3472 47 MUF
R3766 1.2k 1%
C3760 CH 100p
C3581 0.1/16
ADFL
ADFR
ADCT
ADSW
L 2/3

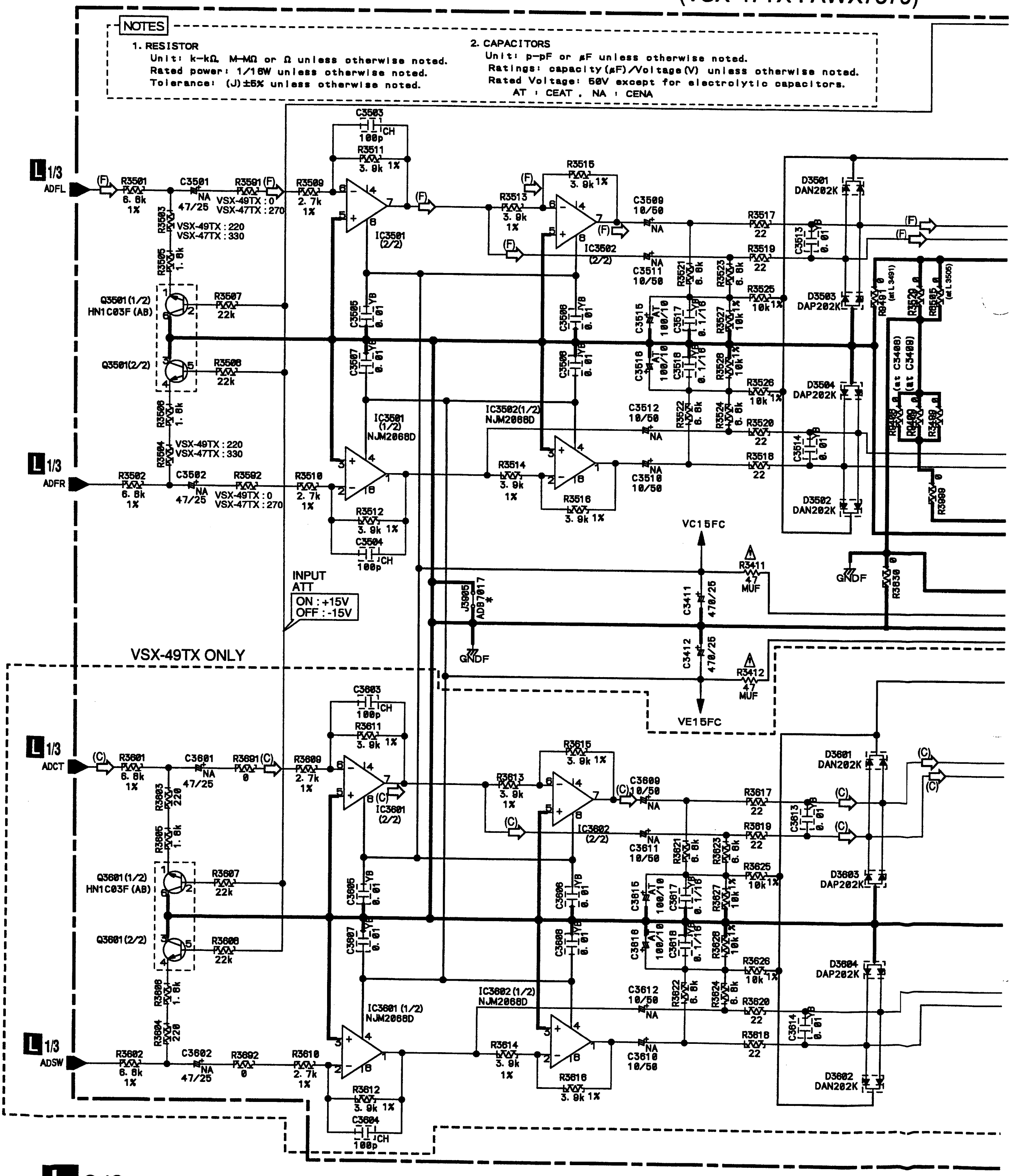
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω
unless otherwise noted.
Rated power: 1/16W
unless otherwise noted.
Tolerance: (J) ±5%
unless otherwise noted.
2. CAPACITORS
Unit: p-pF or µF
unless otherwise noted.
Raiting: capacity(µF)/Voltage(V)
unless otherwise noted.
AT : CEAT , NA : CENA
Rated Voltage: 50V except
for electrolytic capacitors.


L 2/3
MRIH
MRSA
MRSB
ISST
ASST
6XCK
6XDT
VC15I
CN3401
KP200TA20L
20 TXL IN
19 AG
18 TXR IN
17 AG
16 MR L OUT
15 AG
14 MR R OUT
13 AG
12 V FUNC. IN L
11 AG
10 V FUNC. IN R
9 AG
8 MC C IN
7 AG
6 MC SW IN
5 AG
4 MC SBL IN
3 AG
2 MC SBR IN
1 AG
R
CN5814
R3958 0
R3959 0
(MR)
(TX)
(F)
(CD)
(C)
(SB)
(S)
MRSA
MRSB
MRIH
R3955 220
R3956 220
R3957 220
C3953 0.047 YB
C3954 0.047 YB
IC3901 BU4052BCF
VDD T1L CDL TXL A B
T1R TXR CDR INH VEE VSS
Audio MR Function Selector
R3577 100
C3561 NA 10/50
R3581 22
IC3424 (1/2) UPC4570C
R3435 47
R3583 100
C3565 NA 22/25
R3589 1.8k 1%
C3567 100p CH
R3575 100k
R3579 100k
C3563 100p CH
R3587 27k 1%
C3435 470/25
R3585 470k
R3576 100k
R3580 100k
C3564 100p CH
R3588 27k 1%
C3436 470/25
R3586 470k
C3568 100p CH
R3590 1.8k 1%
R3578 100
C3562 NA 10/50
R3582 22
IC3424 (2/2)
R3584 100
C3566 NA 22/25
R3436 47
CN3402
KP200TA17L
1 AG
2 EX FL OUT
3 AG
4 EX FR OUT
5 AG
6 EX C OUT
7 AG
8 EX SW OUT
9 AG
10 EX SL OUT
11 AG
12 EX SR OUT
13 AG
14 EX SBL OUT
15 AG
16 EX SBR OUT
17 AG
GNDF
R
CN5815
R3407 47
R3408 47
C3404 0.047 YB
C3403 0.047 YB
R3404 220
R3405 220
R3406 220
6XDT
6XCK
ASST
VE15I
IC3401 TC9163AF
A/D Mode Selector
VDD FL C ADC FL SL ADSL FL SBL ADBL DT CK
VSS FR SW ADSW FR SR ADSR FR SBR ADBR ST DG
C3405 100p CH
VSX-49TX ONLY
ADSL
ADSR
ADBL
ADBR
L 3/3

(PH) : AUDIO SIGNAL ROUTE (PHONE)
(CD) : AUDIO SIGNAL ROUTE (CD)
(TX) : AUDIO SIGNAL ROUTE (TUNER)
(FL) : AUDIO SIGNAL ROUTE (FL)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (SL)
(SB) : AUDIO SIGNAL ROUTE (SBL)
(MR) : AUDIO SIGNAL ROUTE (MR)
(REC) : AUDIO SIGNAL ROUTE (REC)

3.11 ANALOG IN & A/D ASSY (2/3)

L 2/3 ANALOG IN & A/D ASSY (VSX-49TX : AWX7878)
(VSX-47TX : AWX7879)



NOTES

1. RESISTOR
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.

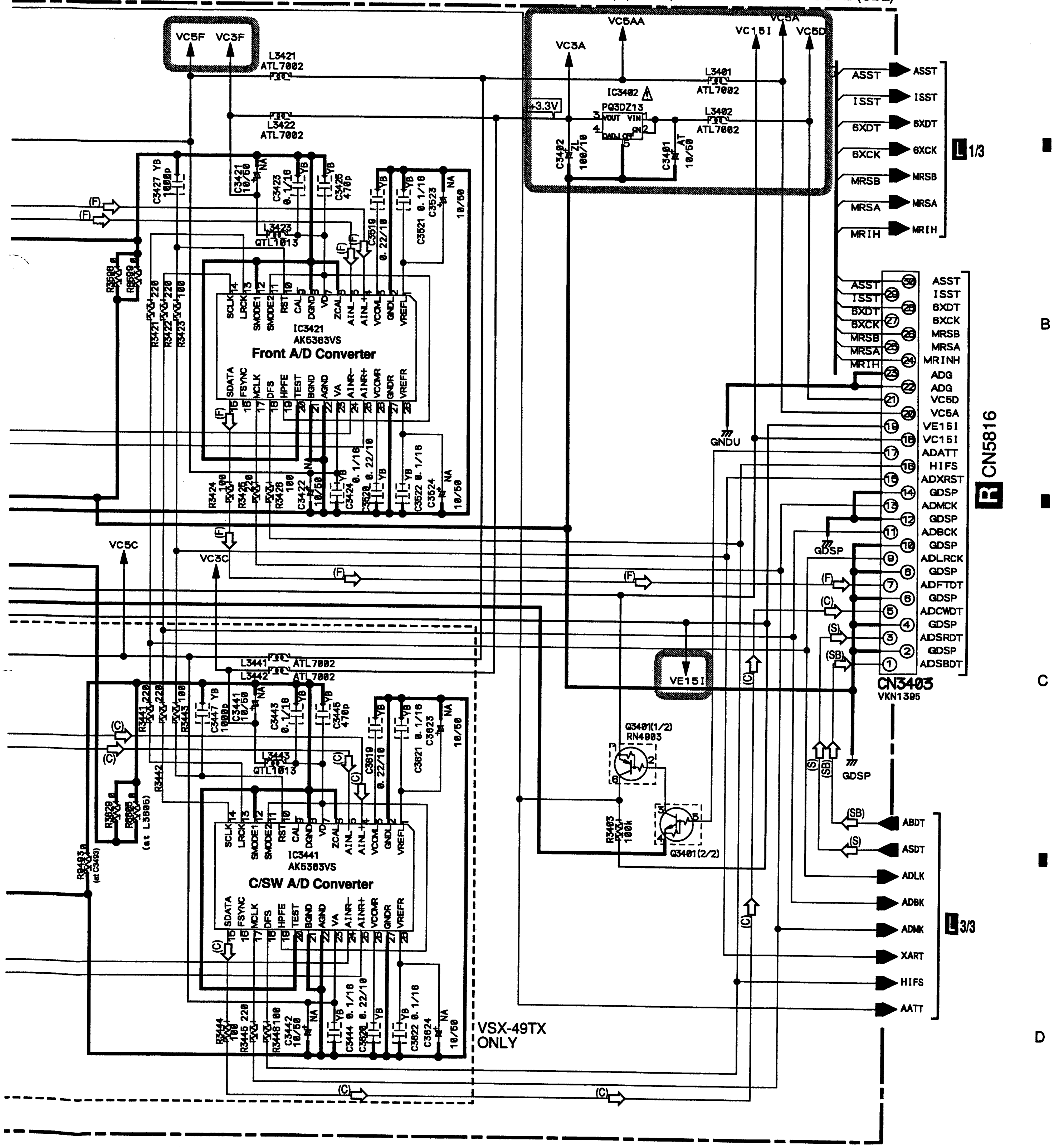
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
AT : CEAT , NA : CENA

L 1/3 ADFL
L 1/3 ADFR
L 1/3 ADCT
L 1/3 ADSW
R3501 6.8k 1%
C3501 NA 47/25
R3591 VSX-49TX : 0 VSX-47TX : 270
R3503 VSX-49TX : 220 VSX-47TX : 330
R3505 1.8k
Q3501(1/2) HN1C03F (AB)
Q3501(2/2)
R3507 22k
R3508 22k
R3506 1.8k
R3504 VSX-49TX : 220 VSX-47TX : 330
R3502 6.8k 1%
C3502 NA 47/25
R3592 VSX-49TX : 0 VSX-47TX : 270
C3503 100p CH
R3511 3.9k 1%
R3509 2.7k 1%
IC3501 (2/2)
IC3501 (1/2) NJM2068D
C3505 YB 0.01
C3507 YB 0.01
R3510 2.7k 1%
R3512 3.9k 1%
C3504 100p CH
R3513 3.9k 1%
R3515 3.9k 1%
IC3502 (2/2)
IC3502(1/2) NJM2068D
C3506 YB 0.01
C3508 YB 0.01
R3514 3.9k 1%
R3516 3.9k 1%
C3509 10/50 NA
C3511 10/50 NA
C3512 10/50 NA
C3510 10/50 NA
R3521 6.8k
R3523 6.8k
R3522 6.8k
R3524 6.8k
C3515 AT 100/10
C3517 YB 0.1/16
R3527 10k 1%
C3516 AT 100/10
C3518 YB 0.1/16
R3528 10k 1%
R3517 22
R3519 22
R3525 10k 1%
R3526 10k 1%
R3520 22
R3518 22
C3513 YB 0.01
C3514 YB 0.01
D3501 DAN202K
D3503 DAP202K
D3504 DAP202K
D3502 DAN202K
R9401 0 (at L3401)
R3529 0
R3505 0 (at L3505)
R3408 0 (at C3408)
R3409 0 (at C3409)
R3499 0
R3900 0
R3830 0
GNDF
VC15FC
VE15FC
R3411 47 MUF
R3412 47 MUF
C3411 470/25
C3412 470/25
J3905 ADB7017 *
INPUT ATT
ON : +15V
OFF : -15V
VSX-49TX ONLY
(F)
(C)
R3601 6.8k 1%
C3601 NA 47/25
R3691 0
R3603 220
R3605 1.8k
Q3601(1/2) HN1C03F (AB)
Q3601(2/2)
R3607 22k
R3608 22k
R3606 1.8k
R3604 220
R3602 6.8k 1%
C3602 NA 47/25
R3692 0
C3603 100p CH
R3611 3.9k 1%
R3609 2.7k 1%
IC3601 (2/2)
IC3601 (1/2) NJM2068D
C3605 YB 0.01
C3607 YB 0.01
R3610 2.7k 1%
R3612 3.9k 1%
C3604 100p CH
R3613 3.9k 1%
R3615 3.9k 1%
IC3602 (2/2)
IC3602 (1/2) NJM2068D
C3606 YB 0.01
C3608 YB 0.01
R3614 3.9k 1%
R3616 3.9k 1%
C3609 10/50 NA
C3611 10/50 NA
C3612 10/50 NA
C3610 10/50 NA
R3621 6.8k
R3623 6.8k
R3622 6.8k
R3624 6.8k
C3615 AT 100/10
C3617 YB 0.1/16
R3627 10k 1%
C3616 AT 100/10
C3618 YB 0.1/16
R3628 10k 1%
R3617 22
R3619 22
R3625 10k 1%
R3626 10k 1%
R3620 22
R3618 22
C3613 YB 0.01
C3614 YB 0.01
D3601 DAN202K
D3603 DAP202K
D3604 DAP202K
D3602 DAN202K

: The power supply is shown with the marked box.

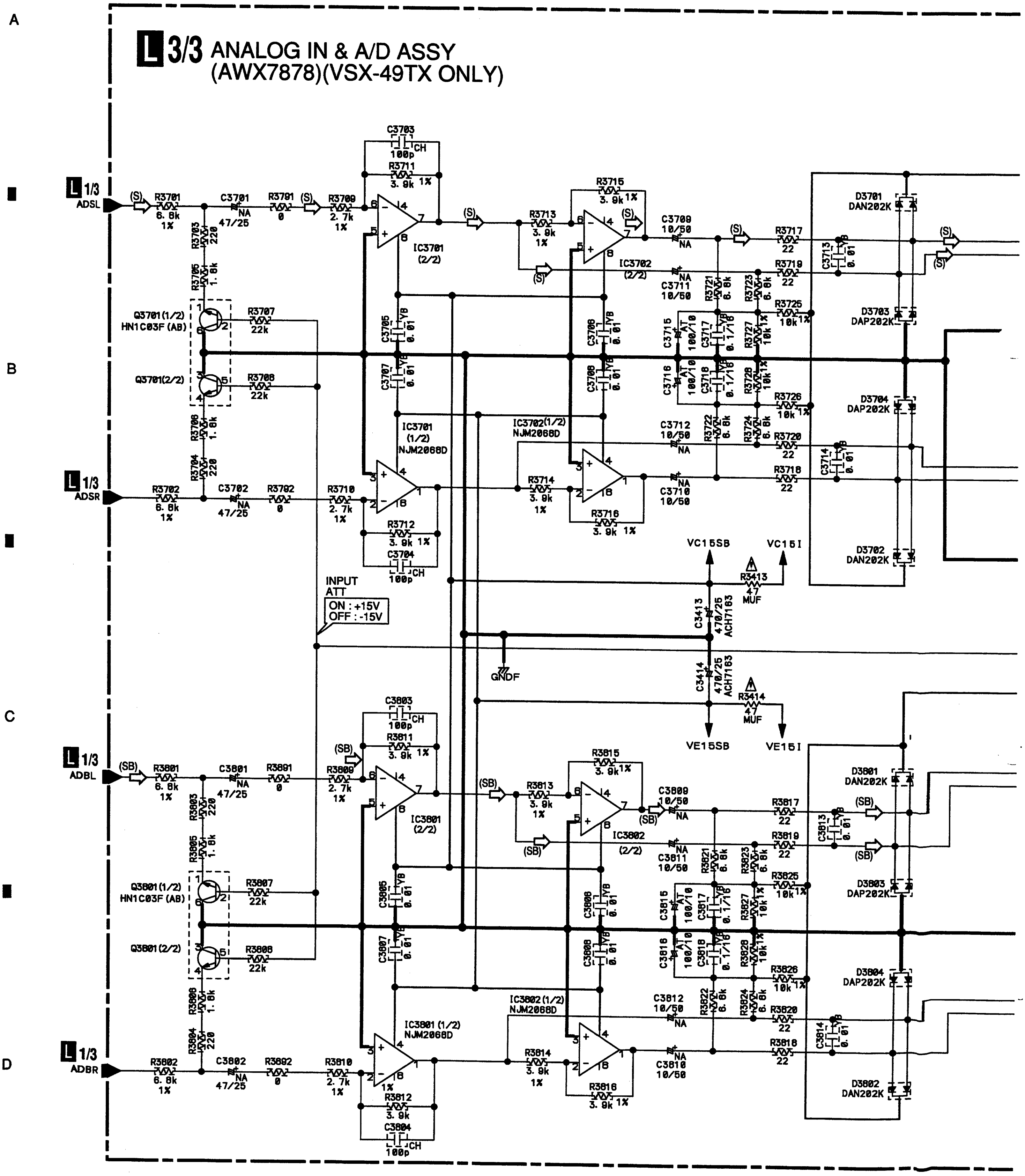
(F)⇨ : AUDIO SIGNAL ROUTE (F) (S)⇨ : AUDIO SIGNAL ROUTE (SL)

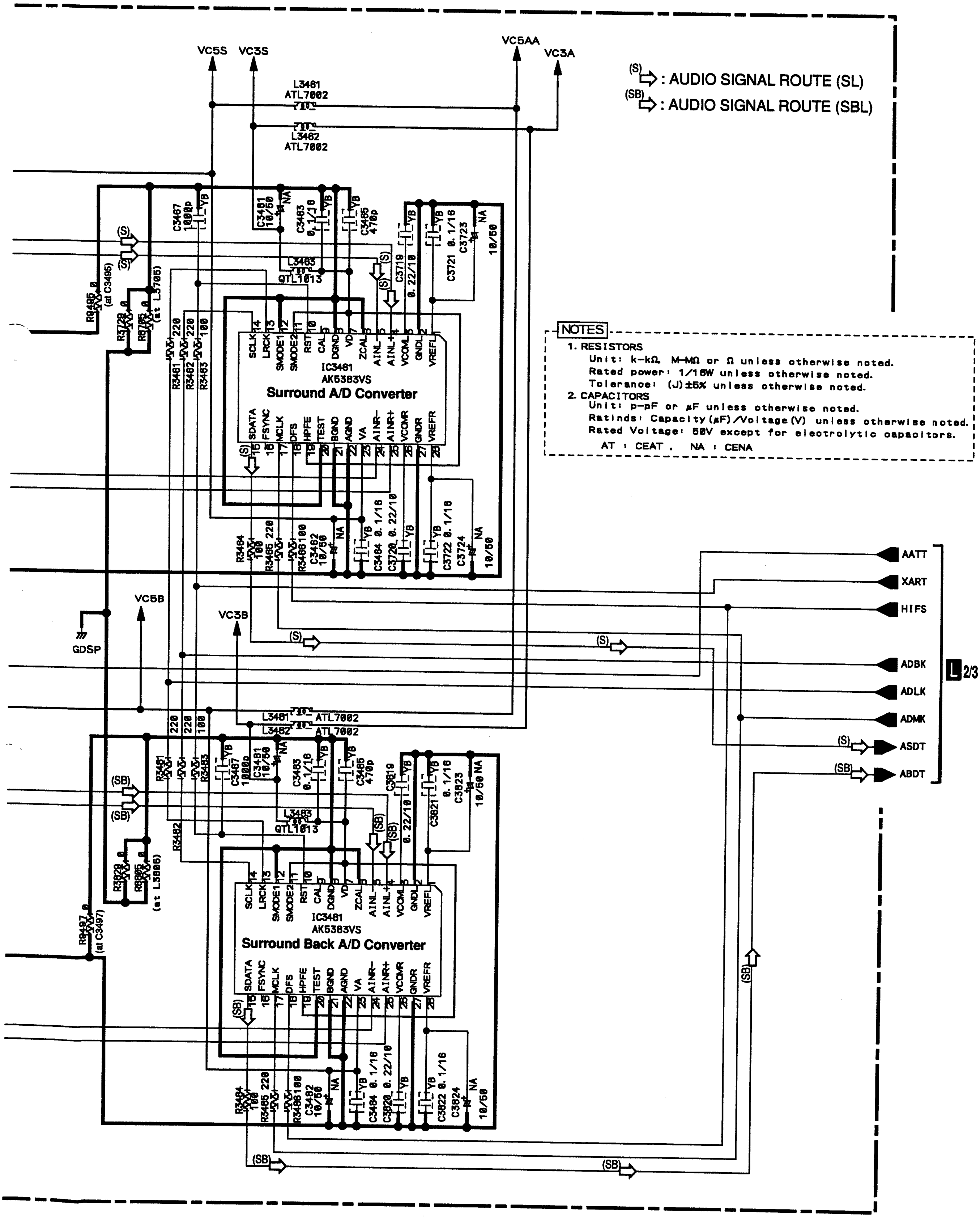
(C)⇨ : AUDIO SIGNAL ROUTE (C) (SB)⇨ : AUDIO SIGNAL ROUTE (SBL)



VC5F VC3F
L3421 ATL7002
L3422 ATL7002
VC3A
VC5AA
VC15I
VC5A
VC5D
IC3402 PQ3DZ13
+3.3V
L3401 ATL7002
L3402 ATL7002
C3402 100/10
C3401 10/50
ASST
ISST
6XDT
6XCK
MRSB
MRSA
MRIH
L 1/3
IC3421 AK5383VS
Front A/D Converter
L3423 QTL1013
R3598
R3599
R3421 220
R3422 220
R3423 100
R3424 100
R3425 220
R3426 100
CN5816
R
CN3403 VKN1395
ASST ISST 6XDT 6XCK MRSB MRSA MRINH ADG ADG VC5D VC5A VE15I VC15I ADATT HIFS ADXRST GDSP ADMCK GDSP ADBCK GDSP ADLRCK GDSP ADFTDT GDSP ADCWDT GDSP ADSRDT GDSP ADSBDT
GNDU
GDSP
VC5C
VC3C
VE15I
L3441 ATL7002
L3442 ATL7002
L3443 QTL1013
IC3441 AK5383VS
C/SW A/D Converter
Q3401(1/2) RN4983
Q3401(2/2)
R3403 100k
R3628
R3605
(at L3605)
R3493 (at C3493)
R3441 220
R3442
R3443 100
R3444 100
R3445 220
R3446 100
ABDT
ASDT
ADLK
ADBK
ADMK
XART
HIFS
AATT
L 3/3
VSX-49TX ONLY

3.12 ANALOG IN & A/D ASSY (3/3) (VSX-49TX ONLY)

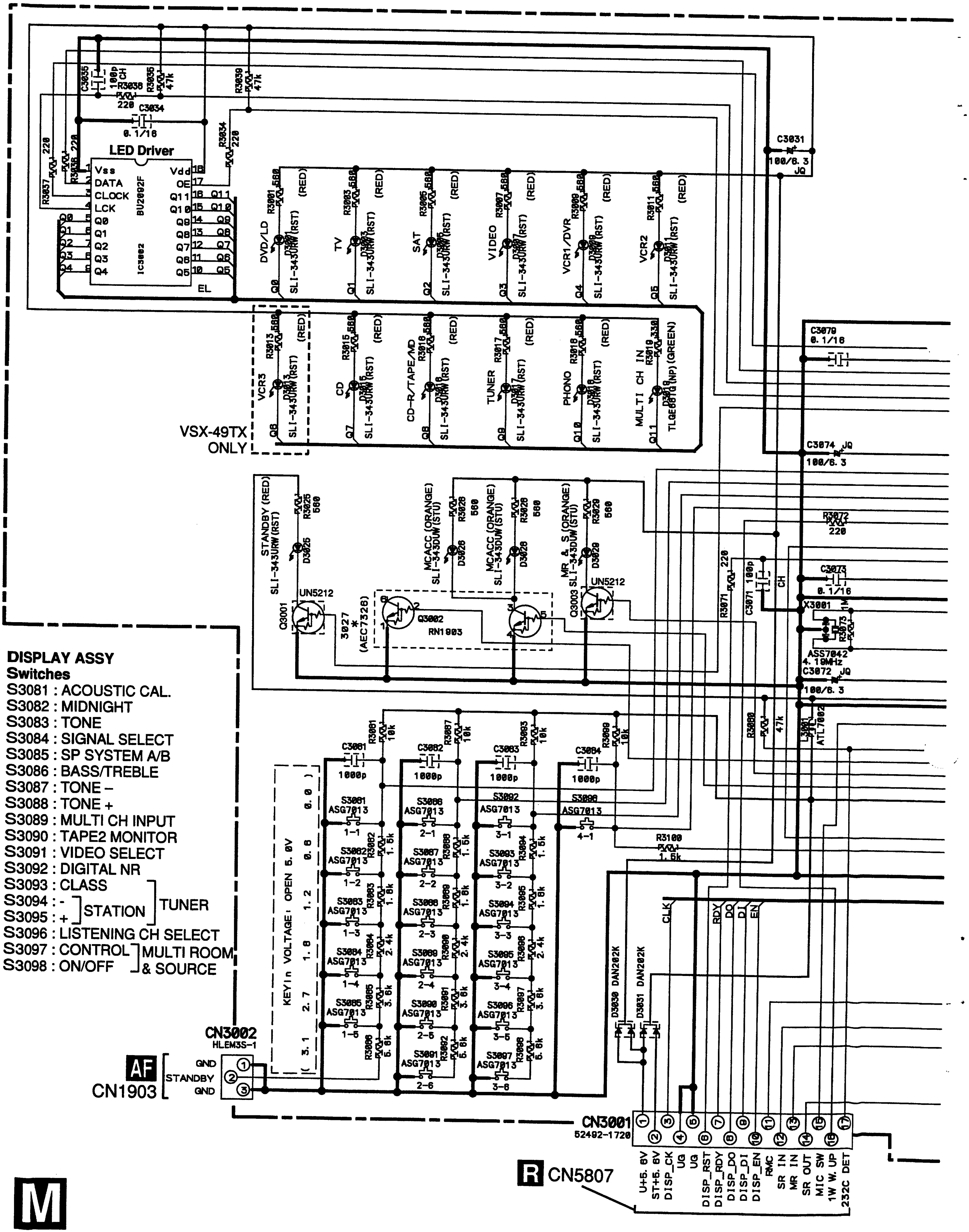

A
B
C
D
L 3/3 ANALOG IN & A/D ASSY
(AWX7878)(VSX-49TX ONLY)
L 1/3 ADSL
L 1/3 ADSR
L 1/3 ADBL
L 1/3 ADBR
(S)
(SB)
R3701 6.8k 1%
R3702 6.8k 1%
R3703 220
R3704 220
R3705 1.8k
R3706 1.8k
R3707 22k
R3708 22k
R3791 0
R3792 0
R3709 2.7k 1%
R3710 2.7k 1%
R3711 3.9k 1%
R3712 3.9k 1%
R3713 3.9k 1%
R3714 3.9k 1%
R3715 3.9k 1%
R3716 3.9k 1%
R3717 22
R3718 22
R3719 22
R3720 22
R3721 6.8k
R3722 6.8k
R3723 6.8k
R3724 6.8k
R3725 10k 1%
R3726 10k 1%
R3727 10k 1%
R3728 10k 1%
C3701 NA 47/25
C3702 NA 47/25
C3703 100p CH
C3704 100p CH
C3705 YB 0.01
C3706 YB 0.01
C3707 YB 0.01
C3708 YB 0.01
C3709 10/50 NA
C3710 10/50 NA
C3711 10/50 NA
C3712 10/50 NA
C3713 YB 0.01
C3714 YB 0.01
C3715 AT 100/10
C3716 AT 100/10
C3717 YB 0.1/16
C3718 YB 0.1/16
Q3701(1/2) HN1C03F (AB)
Q3701(2/2)
IC3701 (2/2)
IC3701 (1/2) NJM2068D
IC3702 (2/2)
IC3702(1/2) NJM2068D
D3701 DAN202K
D3702 DAN202K
D3703 DAP202K
D3704 DAP202K
VC15SB
VC15I
VE15SB
VE15I
R3413 47 MUF
R3414 47 MUF
C3413 470/25 ACH7163
C3414 470/25 ACH7163
GNDF
INPUT ATT
ON : +15V
OFF : -15V
R3801 6.8k 1%
R3802 6.8k 1%
R3803 220
R3804 220
R3805 1.8k
R3806 1.8k
R3807 22k
R3808 22k
R3891 0
R3892 0
R3809 2.7k 1%
R3810 2.7k 1%
R3811 3.9k 1%
R3812 3.9k
R3813 3.9k 1%
R3814 3.9k 1%
R3815 3.9k 1%
R3816 3.9k 1%
R3817 22
R3818 22
R3819 22
R3820 22
R3821 6.8k
R3822 6.8k
R3823 6.8k
R3824 6.8k
R3825 10k 1%
R3826 10k 1%
R3827 10k 1%
R3828 10k 1%
C3801 NA 47/25
C3802 NA 47/25
C3803 100p CH
C3804 100p CH
C3805 YB 0.01
C3806 YB 0.01
C3807 YB 0.01
C3808 YB 0.01
C3809 10/50 NA
C3810 10/50 NA
C3811 10/50 NA
C3812 10/50 NA
C3813 YB 0.01
C3814 YB 0.01
C3815 AT 100/10
C3816 AT 100/10
C3817 YB 0.1/16
C3818 YB 0.1/16
Q3801(1/2) HN1C03F (AB)
Q3801(2/2)
IC3801 (2/2)
IC3801 (1/2) NJM2068D
IC3802 (2/2)
IC3802(1/2) NJM2068D
D3801 DAN202K
D3802 DAN202K
D3803 DAP202K
D3804 DAP202K


VC5S
VC3S
VC5AA
VC3A
L3461
ATL7002
L3462
ATL7002
C3467
1000p
YB
C3461
10/50
NA
C3463
0.1/16
C3465
470p
C3719
0.22/10
C3721 0.1/16
C3723
10/50
L3463
QTL1013
R9495 0 (at C3495)
R3728 0
R8705 0 (at L3705)
R3461 220
R3462 220
R3463 100
SCLK
LRCK
SMODE1
SMODE2
RST
CAL
DGND
VD
ZCAL
AINL−
AINL+
VCOML
GNDL
VREFL
IC3461
AK5383VS
Surround A/D Converter
SDATA
FSYNC
MCLK
DFS
HPFE
TEST
BGND
AGND
VA
AINR−
AINR+
VCOMR
GNDR
VREFR
R3464 100
R3465 220
R3466 100
C3462 10/50
C3464 0.1/16
C3720 0.22/10
C3722 0.1/16
C3724 10/50
VC5B
VC3B
GDSP
(S)
(SB)
AATT
XART
HIFS
ADBK
ADLK
ADMK
ASDT
ABDT
L 2/3
C3819
0.22/10
C3821
0.1/16
C3823
10/50
R3829 0
R8805 0 (at L3805)
R8497 0 (at C3497)
IC3481
AK5383VS
Surround Back A/D Converter
C3482 10/50
C3820 0.22/10
C3822 0.1/16
C3824 10/50
A
B
C
D

(S) : AUDIO SIGNAL ROUTE (SL)
(SB) : AUDIO SIGNAL ROUTE (SBL)

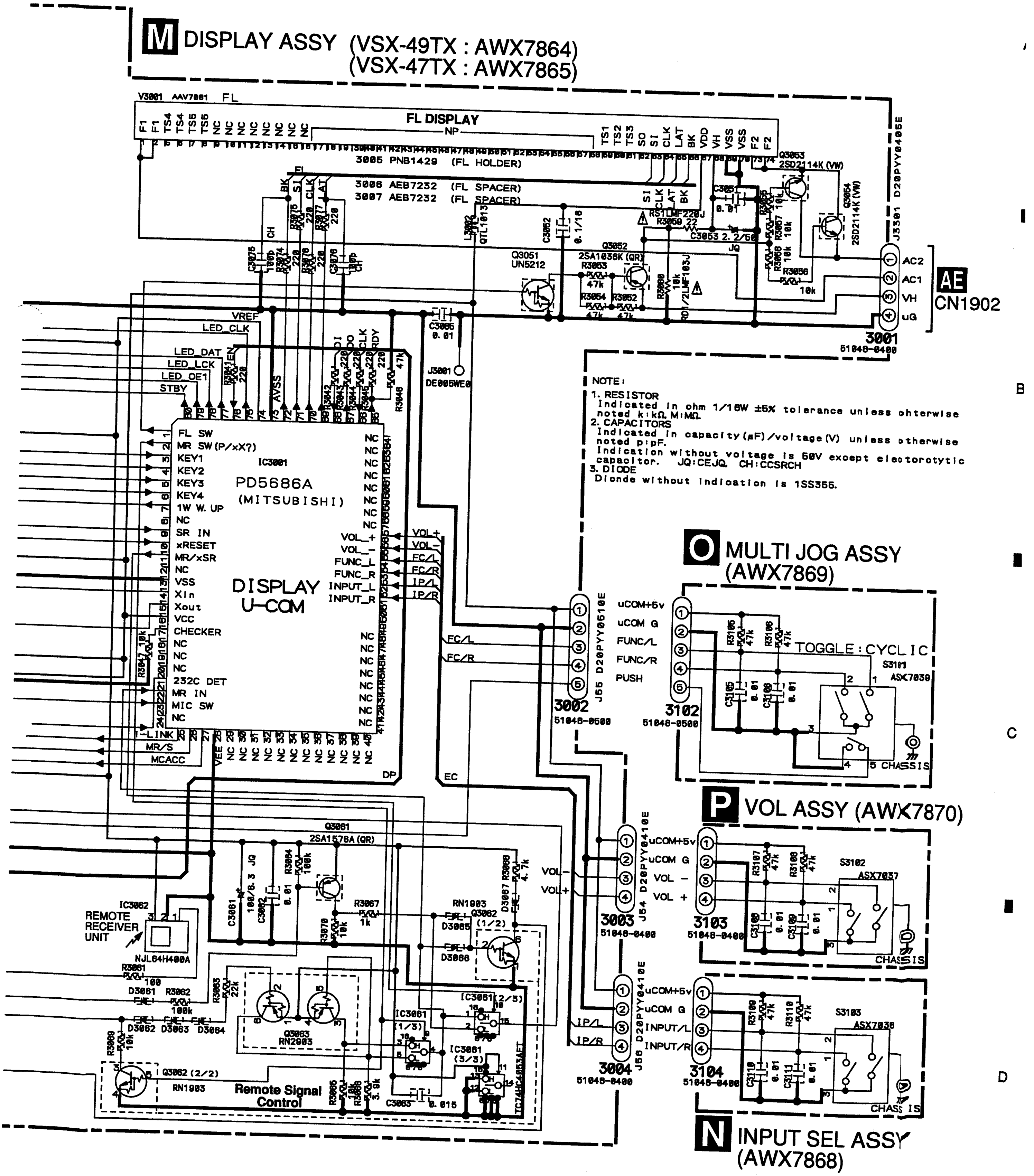
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratinds: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
AT : CEAT , NA : CENA

3.13 DISPLAY, INPUT SEL, MULTI JOG and VOL ASSYS


LED Driver
Vss
DATA
CLOCK
LCK
Q0 Q1 Q2 Q3 Q4
Vdd
OE
Q11 Q10 Q9 Q8 Q7 Q6 Q5
BU2092F
IC3002
EL
C3035 100p CH
R3036 47k
R3038 220
C3034 0.1/16
R3039 47k
R3034 220
R3037 220
R3035 220
C3031 100/6.3 JQ
DVD/LD
TV
SAT
VIDEO
VCR1/DVR
VCR2
VCR3
CD
CD-R/TAPE/MD
TUNER
PHONO
MULTI CH IN
SLI-343URW (RST)
TLGE661G (NP) (GREEN)
(RED)
VSX-49TX ONLY
C3070 0.1/16
C3074 JQ 100/6.3
STANDBY (RED)
SLI-343URW (RST)
D3025
R3025 560
MCACC (ORANGE)
SLI-343DUW (STU)
D3026
D3028
MR & S (ORANGE)
D3029
UN5212
Q3001
Q3002
RN1903
Q3003
3027 * (AEC7326)
R3072 220
R3071 220
C3071 100p CH
C3073 0.1/16
X3001
ASS7042 4.19MHz
R3073 1M
C3072 JQ 100/6.3
R3080 47k
L3001
ATL7002
C3081 1000p
C3082 1000p
C3083 1000p
C3084 1000p
R3081 10k
R3087 10k
R3093 10k
R3099 10k
S3081 ASG7013
S3086 ASG7013
S3092 ASG7013
S3098 ASG7013
R3100 1.5k
KEYIn VOLTAGE : OPEN 5.0V
0.0
0.6
1.2
1.8
2.7
3.1
1.5k 1.8k 2.4k 3.6k 5.6k
CLK
RDY
DO
DI
EN
D3030 DAN202K
D3031 DAN202K
CN3002
HLEM3S-1
AF
CN1903
GND
STANDBY
GND
CN3001
52492-1720
R CN5807
U+5.6V
ST+5.6V
DISP_CK
UG
UG
DISP_RST
DISP_RDY
DISP_DO
DISP_DI
DISP_EN
RMC
SR IN
MR IN
SR OUT
MIC SW
1W W. UP
232C DET

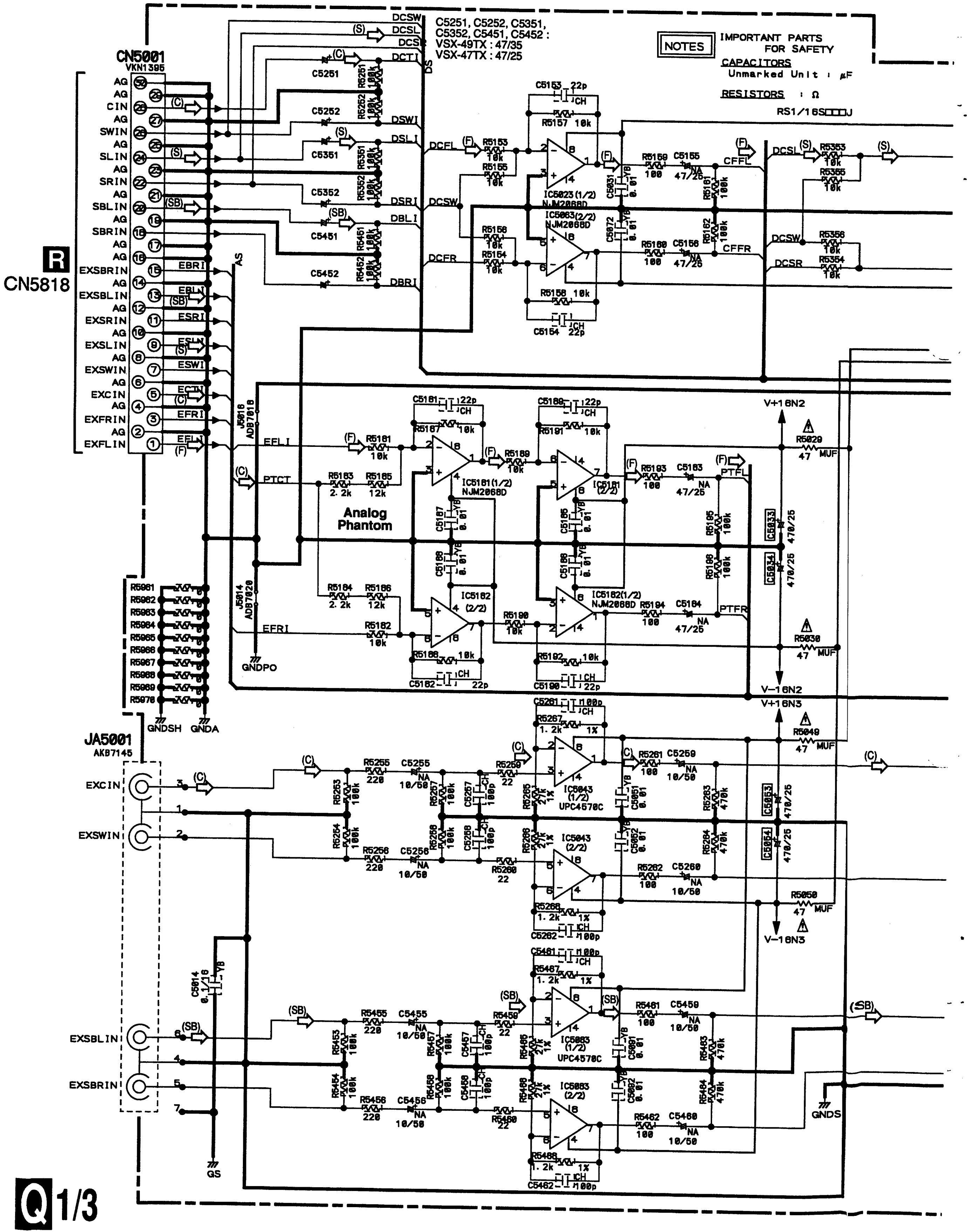
DISPLAY ASSY
Switches

S3081 : ACOUSTIC CAL.
S3082 : MIDNIGHT
S3083 : TONE
S3084 : SIGNAL SELECT
S3085 : SP SYSTEM A/B
S3086 : BASS/TREBLE
S3087 : TONE –
S3088 : TONE +
S3089 : MULTI CH INPUT
S3090 : TAPE2 MONITOR
S3091 : VIDEO SELECT
S3092 : DIGITAL NR
S3093 : CLASS] TUNER
S3094 : -] STATION] TUNER
S3095 : +] STATION] TUNER
S3096 : LISTENING CH SELECT
S3097 : CONTROL] MULTI ROOM & SOURCE
S3098 : ON/OFF] MULTI ROOM & SOURCE


M DISPLAY ASSY (VSX-49TX : AWX7864)
(VSX-47TX : AWX7865)
V3001 AAV7061 FL
FL DISPLAY
3005 PNB1429 (FL HOLDER)
3006 AEB7232 (FL SPACER)
3007 AEB7232 (FL SPACER)
Q3053 2SD2114K (VW)
Q3054 2SD2114K (VW)
Q3051 UN5212
Q3052 2SA1036K (QR)
J3301 D20PYY0405E
AC2
AC1
VH
uG
AE
CN1902
3001
51048-0400
C3005 0.01
J3001 DE005WE0
IC3001
PD5686A
(MITSUBISHI)
DISPLAY U-COM
FL SW
MR SW(P/xX?)
KEY1
KEY2
KEY3
KEY4
1W W. UP
SR IN
xRESET
MR/xSR
VSS
XIn
Xout
VCC
CHECKER
232C DET
MR IN
MIC SW
VOL_+
VOL_-
FUNC_L
FUNC_R
INPUT_L
INPUT_R
VREF
LED_CLK
LED_DAT
LED_LCK
LED_OE1
STBY
LINK
MR/S
MCACC
DP
EC
O MULTI JOG ASSY (AWX7869)
J55 D20PYY0510E
3002
51048-0500
uCOM+5v
uCOM G
FUNC/L
FUNC/R
PUSH
3102
51048-0500
TOGGLE : CYCLIC
S3101 ASK7039
CHASSIS
P VOL ASSY (AWX7870)
J54 D20PYY0410E
3003
51048-0400
VOL -
VOL +
3103
51048-0400
S3102 ASX7037
J56 D20PYY0410E
3004
51048-0400
INPUT/L
INPUT/R
3104
51048-0400
S3103 ASX7038
N INPUT SEL ASSY (AWX7868)
Q3061 2SA1576A (QR)
IC3062
REMOTE RECEIVER UNIT
NJL64H400A
RN1903
Q3062 (1/2)
Q3062 (2/2)
Q3063 RN2903
IC3061 TC74HC4053AFT
Remote Signal Control

NOTE:
1. RESISTOR
Indicated in ohm 1/16W ±5% tolerance unless ohterwise noted k:kΩ, M:MΩ.
2. CAPACITORS
Indicated in capacity(µF)/voltage(V) unless otherwise noted p:pF.
Indication without voltage is 50V except electorotytic capacitor. JQ:CEJQ, CH:CCSRCH
3. DIODE
Dionde without indication is 1SS355.

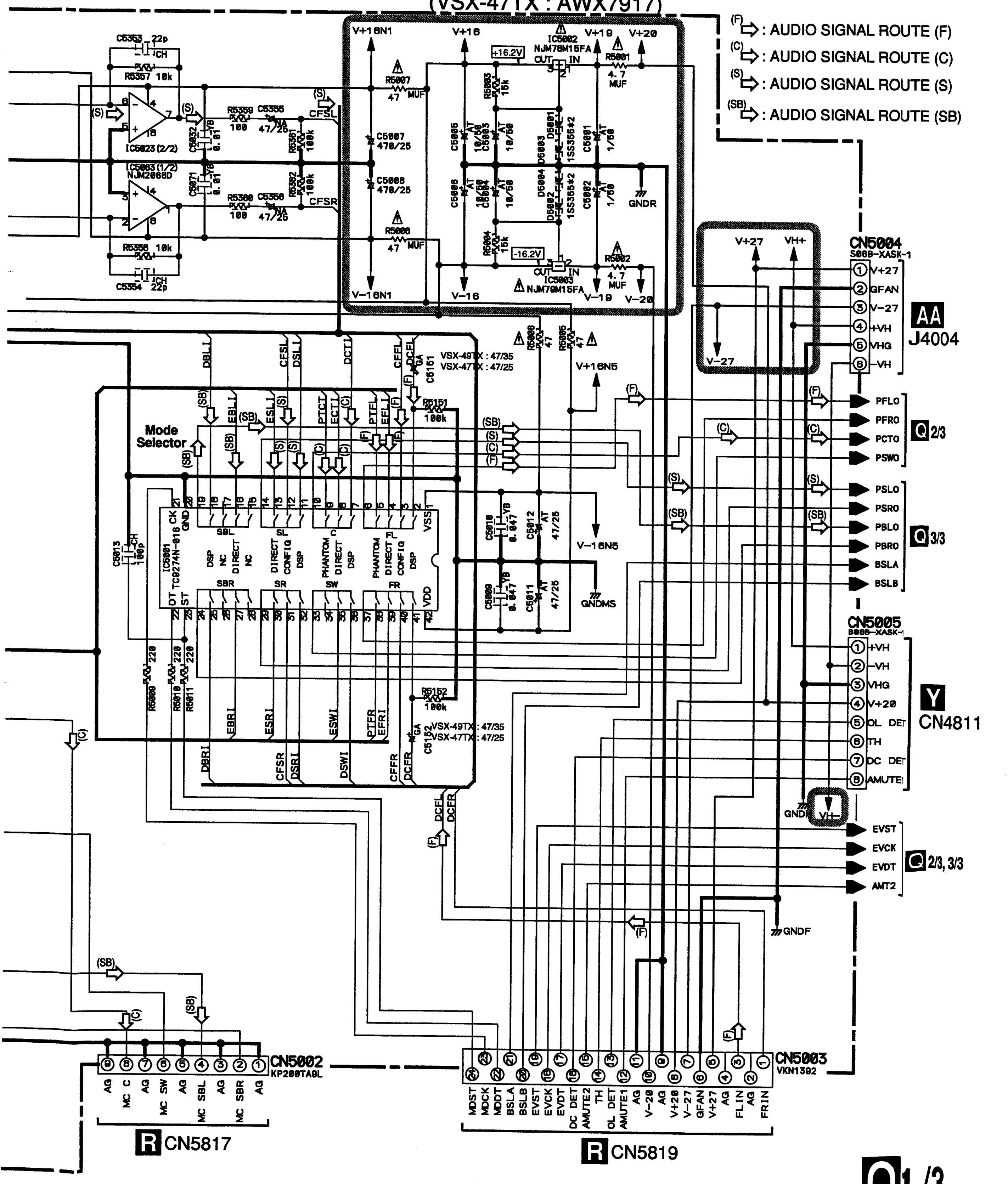
3.14 VR & PRE OUT ASSY (1/3)


C5251, C5252, C5351, C5352, C5451, C5452 :
VSX-49TX : 47/35
VSX-47TX : 47/25
NOTES
IMPORTANT PARTS FOR SAFETY
CAPACITORS
Unmarked Unit : µF
RESISTORS : Ω
RS1/16S□□□J
CN5001
VKN1395
R
CN5818
AG
CIN
SWIN
SLIN
SRIN
SBLIN
SBRIN
EXSBRIN
EXSBLIN
EXSRIN
EXSLIN
EXSWIN
EXCIN
EXFRIN
EXFLIN
DCSW
DCSL
DCS
DCTI
DSWI
DSLI
DSRI
DBLI
DBRI
DCFL
DCSW
DCFR
CFFL
CFFR
DCSL
DCSW
DCSR
EBRI
EBLI
ESRI
ESLI
ESWI
ECIN
EFRI
EFLI
AS
DS
J5016
ADB7018
J5014
ADB7020
PTCT
Analog Phantom
IC5023 (1/2) NJM2068D
IC5063 (2/2) NJM2068D
IC5181 (1/2) NJM2068D
IC5181 (2/2)
IC5182 (2/2)
IC5182 (1/2) NJM2068D
PTFL
PTFR
V+16N2
V-16N2
V+16N3
V-16N3
GNDPO
GNDSH
GNDA
JA5001
AKB7145
EXCIN
EXSWIN
EXSBLIN
EXSBRIN
IC5043 (1/2) UPC4570C
IC5043 (2/2)
IC5083 (1/2) UPC4570C
IC5083 (2/2)
GNDS
GS
R5029 47 MUF
R5030 47 MUF
R5049 47 MUF
R5050 47 MUF
C5033 470/25
C5034 470/25
C5053 470/25
C5054 470/25
C5014 0.1/16

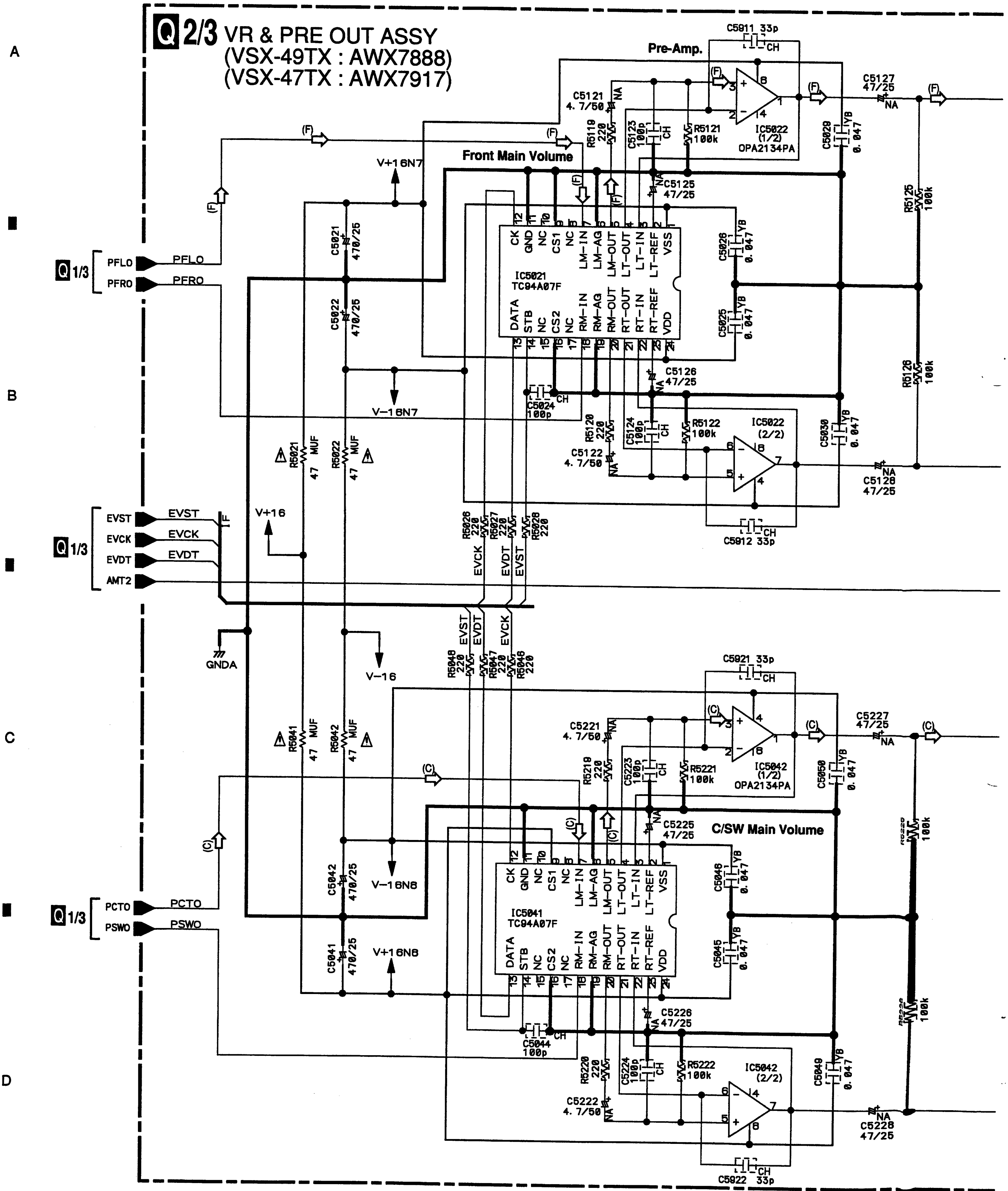
: The power supply is shown with the marked box.

Q 1/3 VR & PRE OUT ASSY (VSX-49TX : AWX7888) (VSX-47TX : AWX7917)

(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (S)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)


C5353 22p CH
R5357 10k
IC5023 (2/2)
IC5003 (1/2) NJM2068D
C5032 YB 0.01
C5071 YB 0.01
R5359 100
C5355 NA 47/25
R5361 100k
R5362 100k
R5360 100
C5356 NA 47/25
CFSL
CFSR
R5358 10k
C5354 22p CH
V+16N1
V-16N1
V+16
V-16
R5007 47 MUF
R5008 47 MUF
C5007 470/25
C5008 470/25
C5005 AT 10/50
C5006 AT 10/50
C5003 AT 10/50
C5004 AT 10/50
R5003 15k
R5004 15k
+16.2V
-16.2V
IC5002 NJM78M15FA
IC5003 NJM79M15FA
OUT IN
D5001 D5002 1SS355×2
D5003 D5004
C5001 AT 1/50
C5002 AT 1/50
R5001 4.7 MUF
R5002 4.7 MUF
V+19 V+20 V-19 V-20
GNDR
V+27 VH+ V-27
CN5004 S06B-XASK-1
① V+27
② GFAN
③ V-27
④ +VH
⑤ VHG
⑥ -VH
AA J4004
DBLI CFSL DSLI DCTI CFFL DCFL
R5005 47 R5006 47
C5151 GA VSX-49TX : 47/35 VSX-47TX : 47/25
V+16N5
R5151 100k
Mode Selector
(SB) EBLI ESLI PTCI ECTI PTFL EFLI
IC5001 TC9274N-016
CK GND SBL SL C FL VSS
DT ST SBR SR SW FR VDD
DSP NC DIRECT NC
DIRECT CONFIG DSP
PHANTOM DIRECT DSP
PHANTOM DIRECT CONFIG DSP
C5013 CH 100p
C5010 YB 0.047
C5012 AT 47/25
C5009 YB 0.047
C5011 AT 47/25
V-16N5
GNDMS
R5009 220 R5010 220 R5011 220
EBRI ESRI ESWI PTFR EFRI
R5152 100k
C5152 GA VSX-49TX : 47/35 VSX-47TX : 47/25
DBRI CFSR DSRI DSWI CFFR DCFR
DCFL DCFR
PFLO PFRO PCTO PSWO
Q 2/3
PSLO PSRO PBLO PBRO BSLA BSLB
Q 3/3
CN5005 B08B-XASK-1
① +VH
② -VH
③ VHG
④ V+20
⑤ OL DET
⑥ TH
⑦ DC DET
⑧ AMUTE1
Y CN4811
GNDP VH-
EVST EVCK EVDT AMT2
Q 2/3, 3/3
GNDF
CN5002 KP200TA9L
⑨ AG ⑧ MC C ⑦ AG ⑥ MC SW ⑤ AG ④ MC SBL ③ AG ② MC SBR ① AG
R CN5817
CN5003 VKN1392
㉔ MDST ㉓ MDCK ㉒ MDDT ㉑ BSLA ⑳ BSLB ⑲ EVST ⑱ EVCK ⑰ EVDT ⑯ DC DET ⑮ AMUTE2 ⑭ TH ⑬ OL DET ⑫ AMUTE1 ⑪ AG ⑩ V-20 ⑨ AG ⑧ V+20 ⑦ V-27 ⑥ GFAN ⑤ V+27 ④ AG ③ FLIN ② AG ① FRIN
R CN5819
A B C D

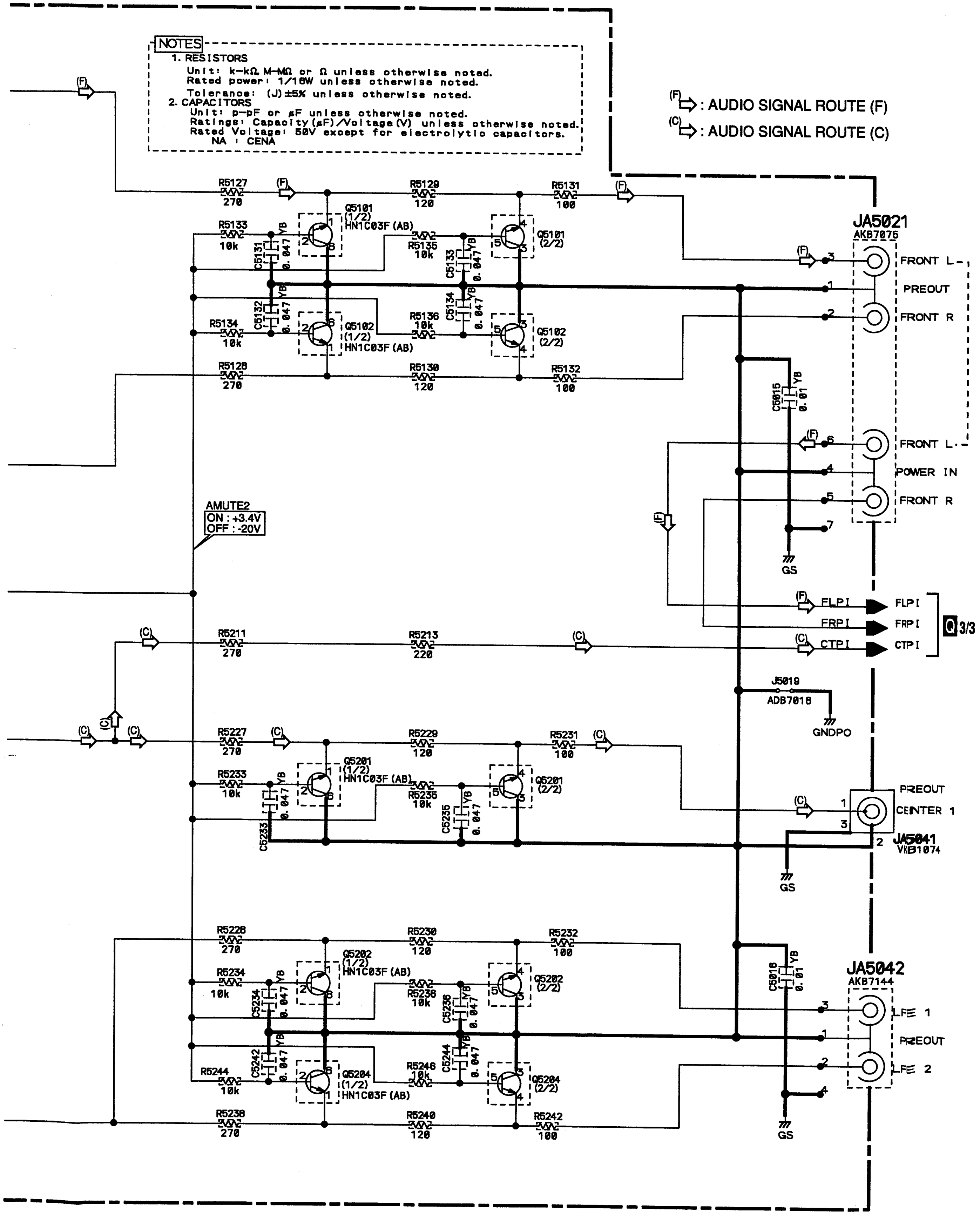
3.15 VR & PRE OUT ASSY (2/3)


A
B
C
D
Q 2/3 VR & PRE OUT ASSY
(VSX-49TX : AWX7888)
(VSX-47TX : AWX7917)
Pre-Amp.
C5911 33p CH
C5121 4.7/50 NA
R5119 220
C5123 100p CH
R5121 100k
IC5022 (1/2) OPA2134PA
C5020 0.047 YB
C5127 47/25 NA
R5125 100k
Front Main Volume
V+16N7
C5125 47/25 NA
C5021 470/25
C5022 470/25
IC5021 TC94A07F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C5026 0.047 YB
C5025 0.047 YB
Q 1/3
PFLO
PFRO
V-16N7
C5024 100p CH
C5126 47/25 NA
R5126 100k
R5120 220
C5124 100p CH
R5122 100k
IC5022 (2/2)
C5030 0.047 YB
C5122 4.7/50 NA
C5128 47/25 NA
C5912 33p CH
R5021 47 MUF
R5022 47 MUF
V+16
EVST
EVCK
EVDT
AMT2
R5026 220
R5027 220
R5028 220
GNDA
V-16
R5048 220
R5047 220
R5046 220
C5921 33p CH
C5221 4.7/50 NA
R5219 220
C5223 100p CH
R5221 100k
IC5042 (1/2) OPA2134PA
C5227 47/25 NA
C5050 0.047 YB
R5041 47 MUF
R5042 47 MUF
C5225 47/25 NA
C/SW Main Volume
R5225 100k
C5042 470/25
V-16N8
IC5041 TC94A07F
C5046 0.047 YB
C5045 0.047 YB
PCTO
PSWO
C5041 470/25
V+16N8
C5044 100p CH
C5226 47/25 NA
R5226 100k
R5220 220
C5224 100p CH
R5222 100k
IC5042 (2/2)
C5049 0.047 YB
C5222 4.7/50 NA
C5228 47/25 NA
C5922 33p CH
(F)
(C)

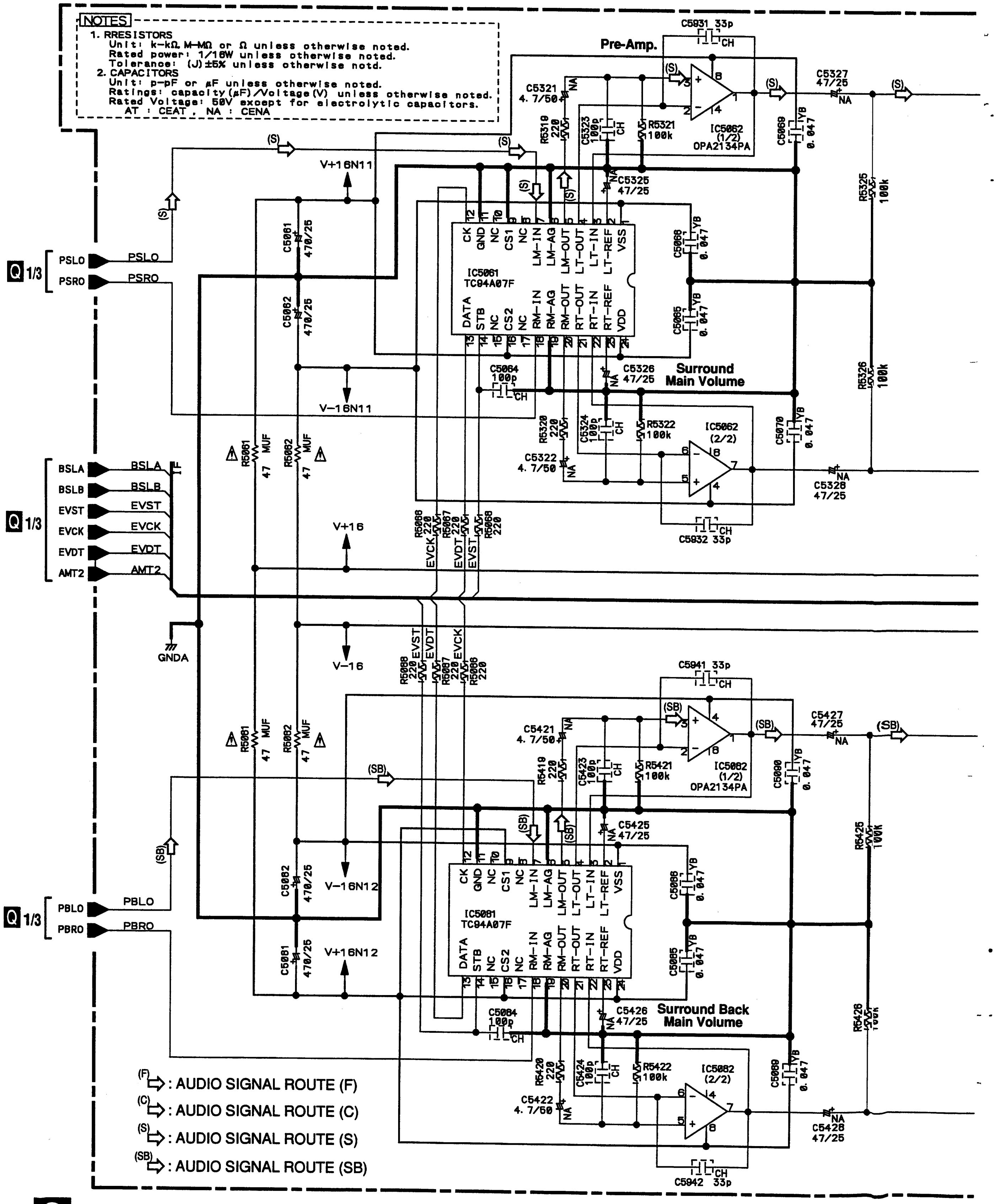
NOTES

1. RESISTORS
   Unit: k–kΩ, M–MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p–pF or μF unless otherwise noted.
   Ratings: Capacity (μF)/Voltage (V) unless otherwise noted.
   Rated Voltage: 50V except for electrolytic capacitors.
   NA : CENA

(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)


R5127 270
R5129 120
R5131 100
R5133 10k
R5134 10k
R5135 10k
R5136 10k
R5128 270
R5130 120
R5132 100
C5131 0.047 YB
C5132 0.047 YB
C5133 0.047 YB
C5134 0.047 YB
Q5101 (1/2) HN1C03F (AB)
Q5101 (2/2)
Q5102 (1/2) HN1C03F (AB)
Q5102 (2/2)
JA5021 AKB7075
FRONT L
PREOUT
FRONT R
FRONT L
POWER IN
FRONT R
C5015 0.01 YB
GS
AMUTE2
ON : +3.4V
OFF : -20V
FLPI
FRPI
CTPI
Q 3/3
R5211 270
R5213 220
J5019 ADB7018
GNDPO
R5227 270
R5229 120
R5231 100
R5233 10k
R5235 10k
C5233 0.047 YB
C5235 0.047 YB
Q5201 (1/2) HN1C03F (AB)
Q5201 (2/2)
PREOUT
CENTER 1
JA5041 VKB1074
GS
R5228 270
R5230 120
R5232 100
R5234 10k
R5236 10k
R5244 10k
R5246 10k
R5238 270
R5240 120
R5242 100
C5234 0.047 YB
C5236 0.047 YB
C5242 0.047 YB
C5244 0.047 YB
C5016 0.01 YB
Q5202 (1/2) HN1C03F (AB)
Q5202 (2/2)
Q5204 (1/2) HN1C03F (AB)
Q5204 (2/2)
JA5042 AKB7144
LFE 1
PREOUT
LFE 2
GS
(F)
(C)

3.16 VR & PRE OUT ASSY (3/3)



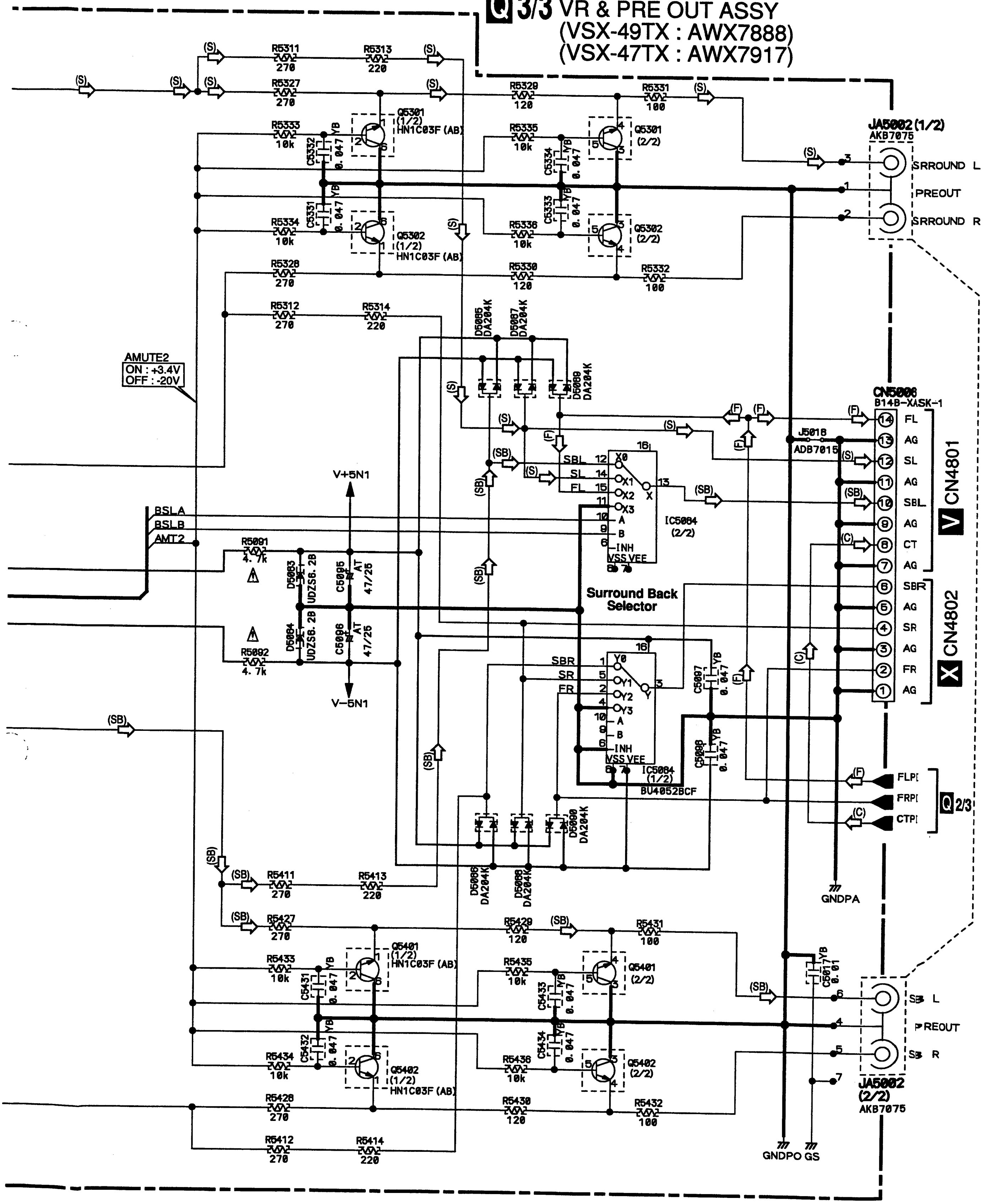
NOTES

1. RRESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: (J)±5% unless otherwise notd.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Ratings: capacity(μF)/Voltage(V) unless otherwise noted.
   Rated Voltage: 50V except for electrolytic capacitors.
   AT : CEAT , NA : CENA

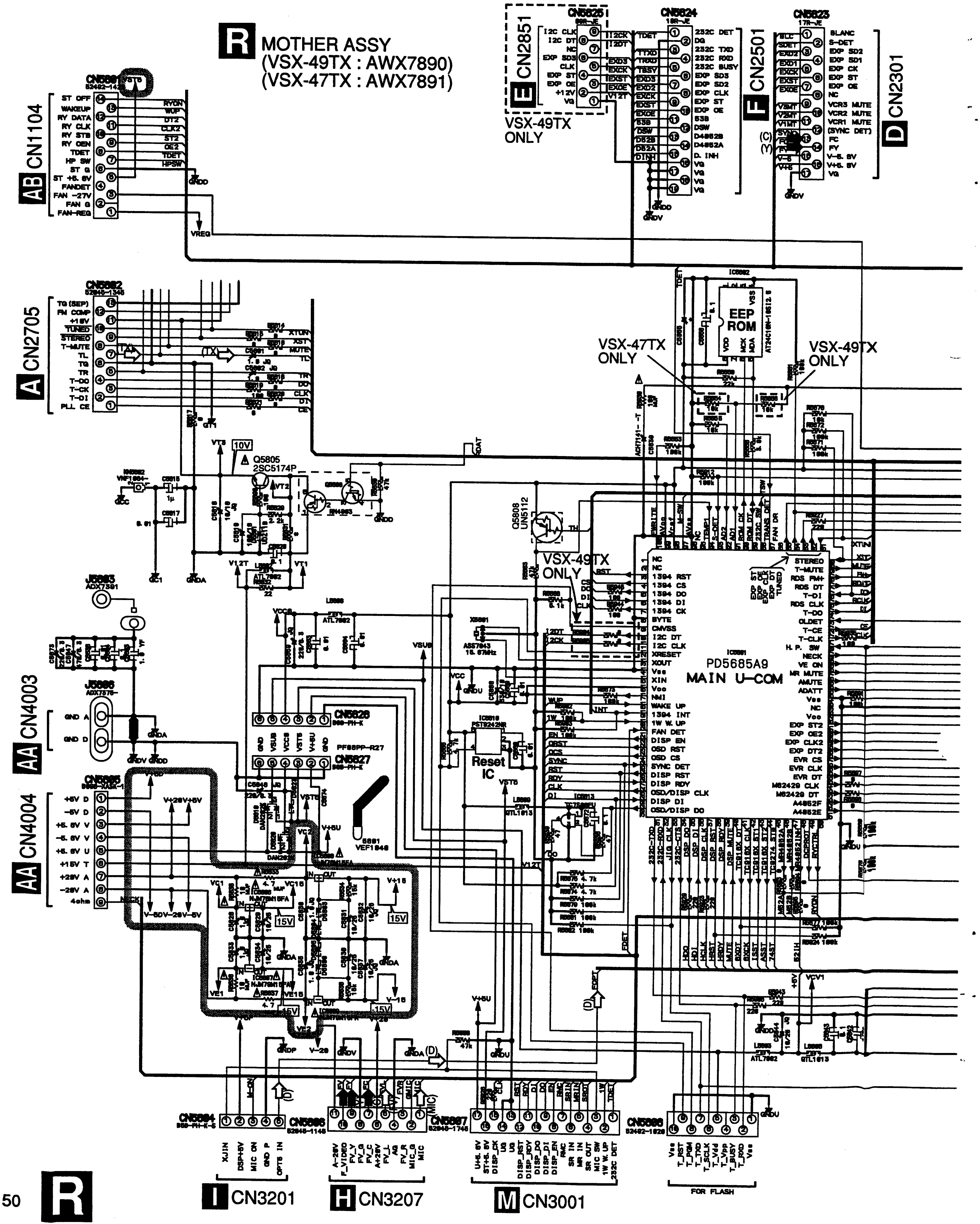
(F)⇨ : AUDIO SIGNAL ROUTE (F)
(C)⇨ : AUDIO SIGNAL ROUTE (C)
(S)⇨ : AUDIO SIGNAL ROUTE (S)
(SB)⇨ : AUDIO SIGNAL ROUTE (SB)

Pre-Amp.
C5931 33p CH
C5321 4.7/50 NA
R5319 220
C5323 100p CH
R5321 100k
IC5062 (1/2) OPA2134PA
C5069 YB 0.047
C5327 47/25 NA
R5325 100k
V+16N11
C5325 47/25 NA
C5061 470/25
C5062 470/25
IC5061 TC94A07F
CK GND NC NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C5068 YB 0.047
C5065 YB 0.047
Q 1/3 PSLO PSRO
C5064 100p CH
C5326 47/25 NA
Surround Main Volume
R5326 100k
V-16N11
R5320 220
C5324 100p CH
R5322 100k
IC5062 (2/2)
C5070 YB 0.047
C5322 4.7/50 NA
C5328 47/25 NA
C5932 33p CH
R5061 47 MUF
R5062 47 MUF
Q 1/3 BSLA BSLB EVST EVCK EVDT AMT2
V+16
R5068 220 R5067 220 R5066 220 EVCK EVDT EVST
GNDA
V-16
C5941 33p CH
C5421 4.7/50 NA
C5427 47/25 NA
R5419 220
C5423 100p CH
R5421 100k
IC5082 (1/2) OPA2134PA
C5090 YB 0.047
R5425 100k
C5425 47/25 NA
C5082 470/25
V-16N12
IC5081 TC94A07F
C5086 YB 0.047
C5085 YB 0.047
Q 1/3 PBLO PBRO
C5081 470/25
V+16N12
C5084 100p CH
C5426 47/25 NA
Surround Back Main Volume
R5426 100k
R5420 220
C5424 100p CH
R5422 100k
IC5082 (2/2)
C5089 YB 0.047
C5422 4.7/50 NA
C5428 47/25 NA
C5942 33p CH
(S) (SB)
A B C D

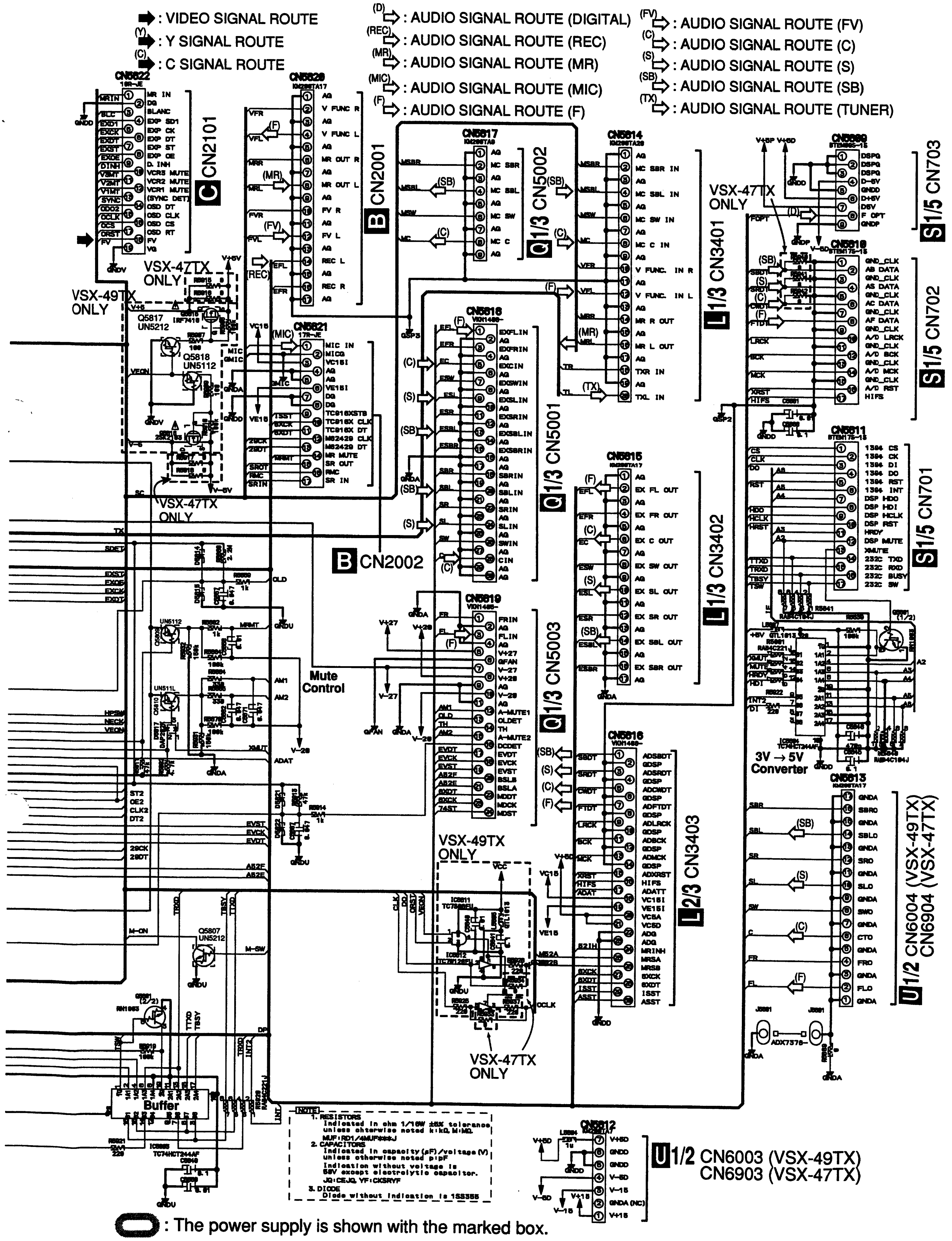
Q 3/3 VR & PRE OUT ASSY
(VSX-49TX : AWX7888)
(VSX-47TX : AWX7917)


A
B
C
D
R5311 270
R5313 220
R5327 270
R5329 120
R5331 100
R5333 10k
R5335 10k
R5334 10k
R5336 10k
R5328 270
R5330 120
R5332 100
R5312 270
R5314 220
C5332 0.047 YB
C5331 0.047 YB
C5334 0.047 YB
C5333 0.047 YB
Q5301 (1/2) HN1C03F (AB)
Q5301 (2/2)
Q5302 (1/2) HN1C03F (AB)
Q5302 (2/2)
JA5002 (1/2) AKB7075
SRROUND L
PREOUT
SRROUND R
AMUTE2
ON : +3.4V
OFF : -20V
D5085 DA204K
D5087 DA204K
D5089 DA204K
CN5006 B14B-XASK-1
FL
AG
SL
AG
SBL
AG
CT
AG
SBR
AG
SR
AG
FR
AG
V CN4801
X CN4802
J5018 ADB7015
SBL
SL
FL
X0
X1
X2
X3
X
A
B
INH
VSS VEE
IC5084 (2/2)
Surround Back Selector
V+5N1
V-5N1
BSLA
BSLB
AMT2
R5091 4.7k
R5092 4.7k
D5083 UDZS6.2B
D5084 UDZS6.2B
C5095 AT 47/25
C5096 AT 47/25
SBR
SR
FR
Y0
Y1
Y2
Y3
Y
IC5084 (1/2) BU4052BCF
C5097 0.047 YB
C5098 0.047 YB
FLP
FRP
CTP
Q 2/3
GNDPA
D5086 DA204K
D5088 DA204K
D5090 DA204K
(S)
(SB)
(F)
(C)
R5411 270
R5413 220
R5427 270
R5429 120
R5431 100
R5433 10k
R5435 10k
R5434 10k
R5436 10k
R5428 270
R5430 120
R5432 100
R5412 270
R5414 220
C5431 0.047 YB
C5432 0.047 YB
C5433 0.047 YB
C5434 0.047 YB
Q5401 (1/2) HN1C03F (AB)
Q5401 (2/2)
Q5402 (1/2) HN1C03F (AB)
Q5402 (2/2)
C5017 0.01 YB
SB L
PREOUT
SB R
JA5002 (2/2) AKB7075
GNDPO
GS

3.17 MOTHER ASSY


R MOTHER ASSY
(VSX-49TX : AWX7890)
(VSX-47TX : AWX7891)
AB CN1104
A CN2705
AA CN4003
AA CN4004
E CN2851
VSX-49TX ONLY
F CN2501
D CN2301
CN5601
CN5602
CN5624
CN5623
CN5625
J5603
J5606
Q5805 2SC5174P
Q5808 UN5112
EEP ROM
VSX-47TX ONLY
VSX-49TX ONLY
VSX-49TX ONLY
PD5685A9
MAIN U-COM
Reset IC
CN5626
CN5627
CN5604
CN5606
CN5607
CN5608
FOR FLASH
I CN3201
H CN3207
M CN3001
10V
15V
-15V
15V
-15V

A
B
C
D



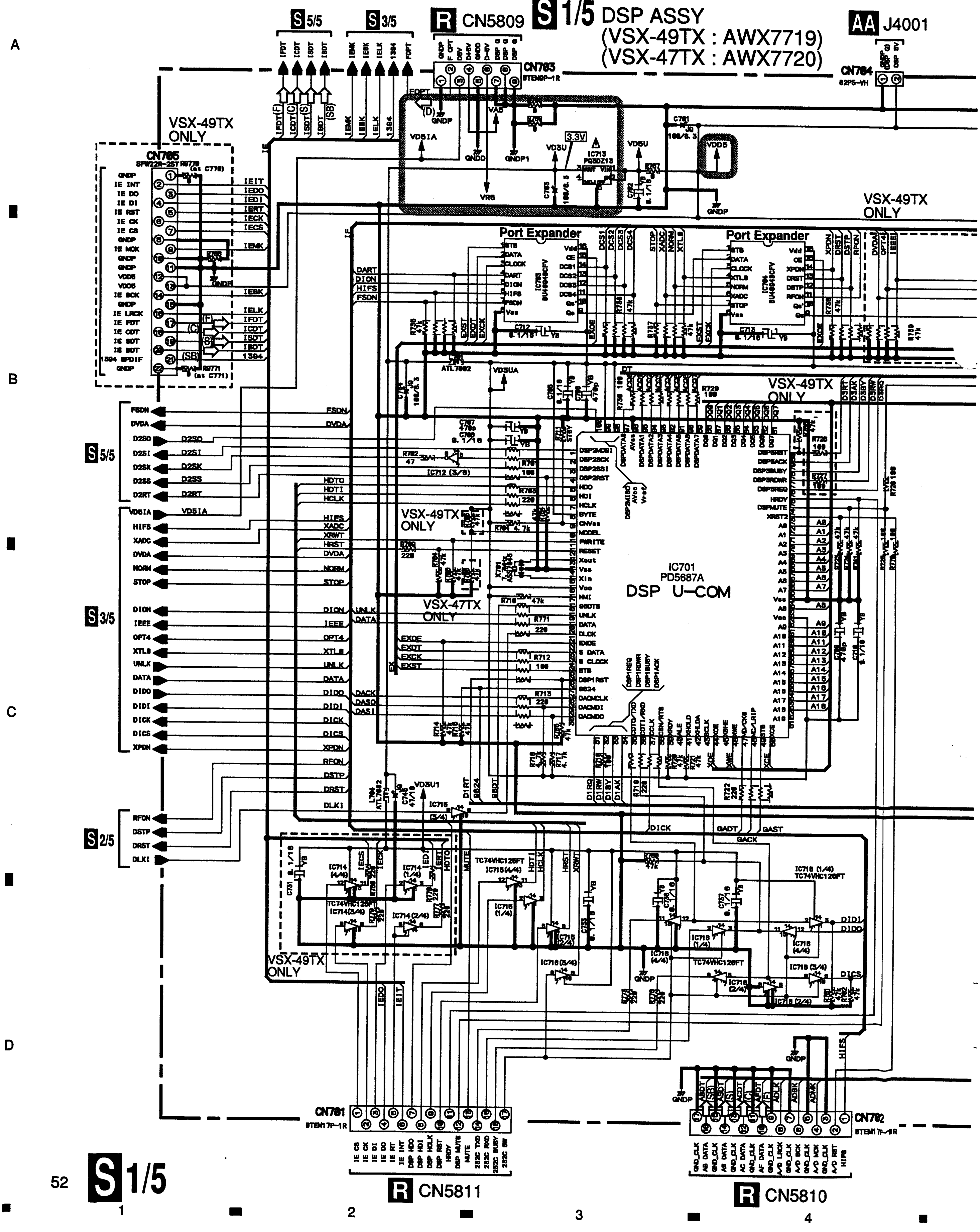
➡ : VIDEO SIGNAL ROUTE
(Y)➡ : Y SIGNAL ROUTE
(C)➡ : C SIGNAL ROUTE
(D)⇨ : AUDIO SIGNAL ROUTE (DIGITAL)
(REC)⇨ : AUDIO SIGNAL ROUTE (REC)
(MR)⇨ : AUDIO SIGNAL ROUTE (MR)
(MIC)⇨ : AUDIO SIGNAL ROUTE (MIC)
(F)⇨ : AUDIO SIGNAL ROUTE (F)
(FV)⇨ : AUDIO SIGNAL ROUTE (FV)
(C)⇨ : AUDIO SIGNAL ROUTE (C)
(S)⇨ : AUDIO SIGNAL ROUTE (S)
(SB)⇨ : AUDIO SIGNAL ROUTE (SB)
(TX)⇨ : AUDIO SIGNAL ROUTE (TUNER)

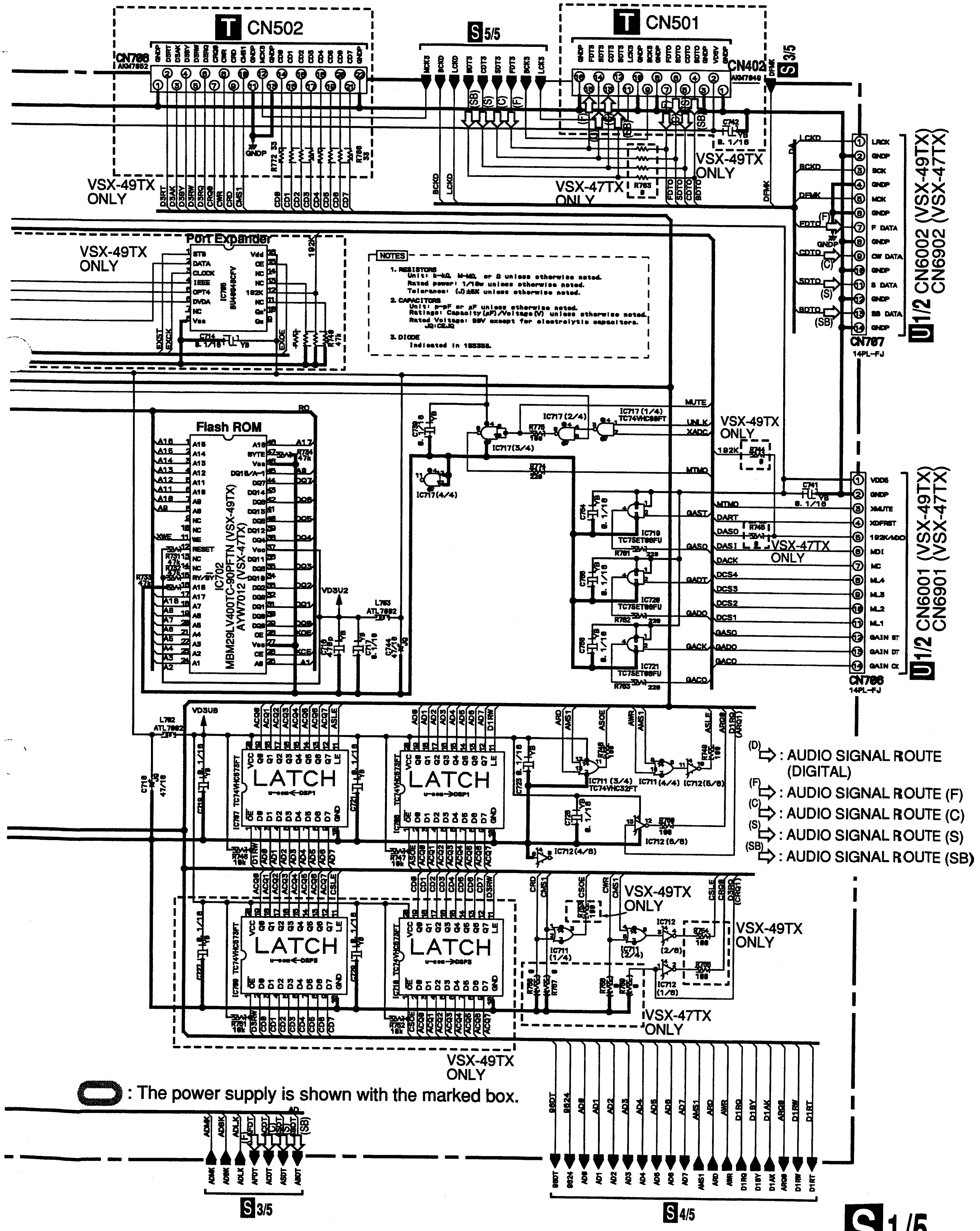
CN5622
C CN2101
CN5620
B CN2001
CN5617
Q 1/3 CN5002
CN5614
L 1/3 CN3401
CN5609
S 1/5 CN703
VSX-47TX ONLY
CN5610
S 1/5 CN702
CN5621
CN5618
Q 1/3 CN5001
VSX-49TX ONLY
CN5611
S 1/5 CN701
CN5615
L 1/3 CN3402
B CN2002
Mute Control
CN5619
Q 1/3 CN5003
3V → 5V Converter
CN5616
L 2/3 CN3403
CN5613
U 1/2 CN6004 (VSX-49TX) CN6904 (VSX-47TX)
Buffer
CN5612
U 1/2 CN6003 (VSX-49TX) CN6903 (VSX-47TX)

NOTE
1. RESISTORS
Indicated in ohm 1/16W ±5% tolerance unless ohterwise noted k:kΩ, M:MΩ.
MUF:RD1/4MUF※※※J
2. CAPACITORS
Indicated in capacity(μF)/voltage(V) unless otherwise noted p:pF
Indication without voltage is 50V except electrolytic capacitor.
JQ:CEJQ, YF:CKSRYF
3. DIODE
Diode without indication is 1SS355

⬭ : The power supply is shown with the marked box.

3.18 DSP ASSY (1/5)


S 1/5 DSP ASSY
(VSX-49TX : AWX7719)
(VSX-47TX : AWX7720)
S 5/5
S 3/5
R CN5809
AA J4001
CN703
CN704
CN705
VSX-49TX ONLY
VSX-47TX ONLY
Port Expander
IC703 BU4094BCFV
IC704 BU4094BCFV
IC713 PQ3DZ13
3.3V
IC701 PD5687A
DSP U-COM
IC712 (3/6)
IC714 TC74VHC126FT
IC715 TC74VHC126FT
IC716 TC74VHC126FT
S 2/5
CN701
CN702
R CN5811
R CN5810
VD5IA
VD5U
VDD5
VD3U
VD3UA
VD3U1
VR5
GNDP
GNDD
A
B
C
D
1
2
3
4


T CN502
CN706 AKM7652
S 5/5
T CN501
CN402 AKM7649
S 3/5
VSX-49TX ONLY
VSX-47TX ONLY
Port Expander
IC705 BU4094BCFV
Flash ROM
IC702 MBM29LV400TC-90PFTN (VSX-49TX) AYW7012 (VSX-47TX)
IC717 TC74VHC08FT
IC719 TC7SET08FU
IC720 TC7SET08FU
IC721 TC7SET08FU
LATCH
IC707 TC74VHC573FT
IC708 TC74VHC573FT
IC709 TC74VHC573FT
IC710 TC74VHC573FT
IC711 TC74VHC32FT
IC712
L762 ATL7002
L763 ATL7002
VD3UB
VD3U2
U 1/2 CN6002 (VSX-49TX) CN6902 (VSX-47TX)
CN707 14PL-FJ
U 1/2 CN6001 (VSX-49TX) CN6901 (VSX-47TX)
CN706 14PL-FJ
LRCK
GNDP
BCK
MCK
F DATA
CW DATA
S DATA
SB DATA
VDD5
XMUTE
XDFRST
192K/ADO
MDI
MC
ML4
ML3
ML2
ML1
GAIN ST
GAIN DT
GAIN CK
S 3/5
S 4/5

(D) ⇨ : AUDIO SIGNAL ROUTE (DIGITAL)
(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (S)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)

NOTES

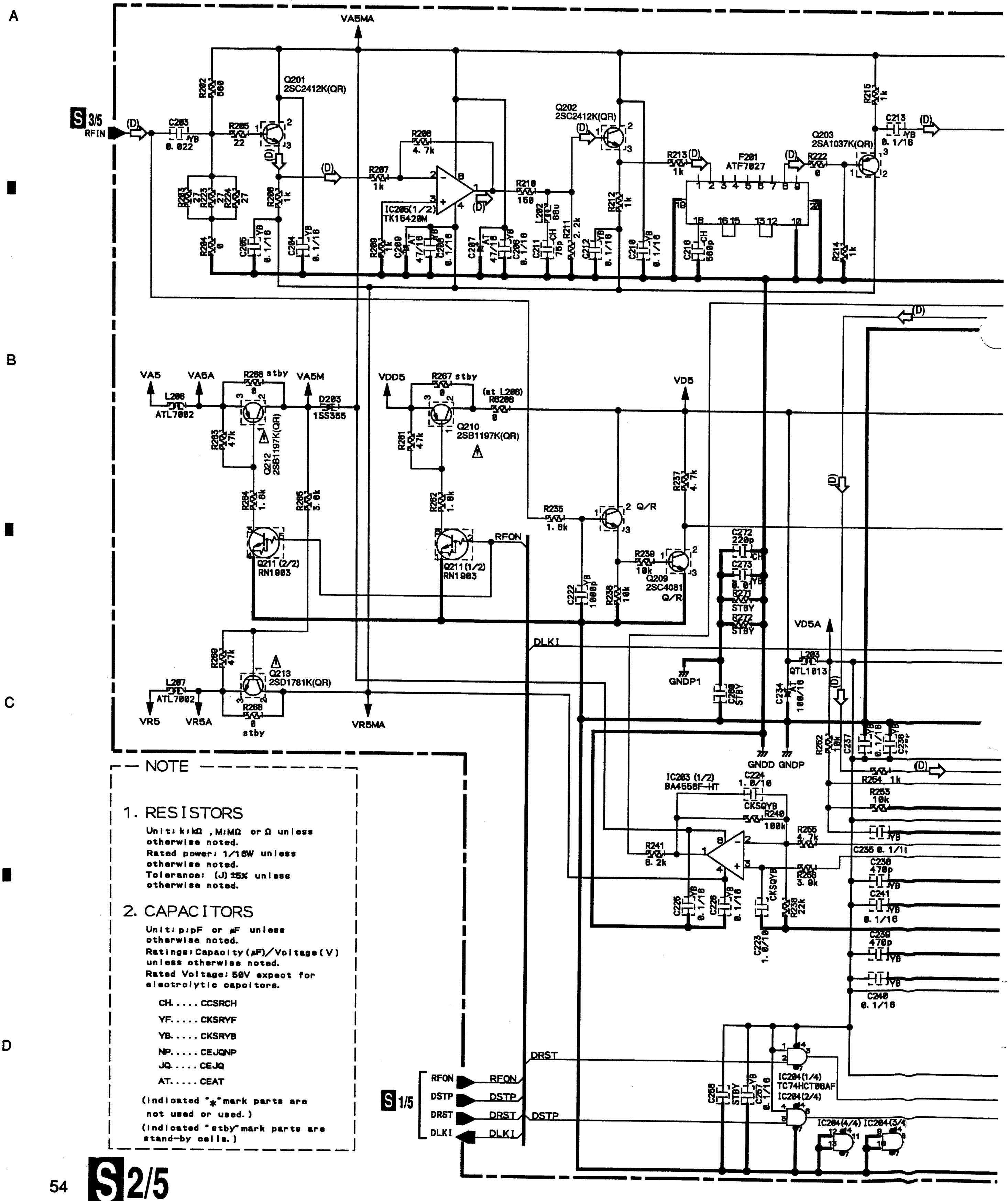
1. RESISTORS
Unit: k-kΩ, M-MΩ, or Ω unless otherwise noted.
Rated power: 1/10w unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.

2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
JQ:CEJQ

3. DIODE
Indicated in 1SS355.

▭ : The power supply is shown with the marked box.

3.19 DSP ASSY (2/5)


A
B
C
D
S 3/5
RFIN
(D)
VA5MA
C203 0.022 YB
R205 22
R202 560
Q201 2SC2412K(QR)
R203 27
R223 27
R224 27
R206 1k
R204 0
C205 YB 0.1/16
C204 YB 0.1/16
R208 4.7k
R207 1k
IC205(1/2) TK15420M
R209 1k
C209 AT 47/16
C208 0.1/16
C207 AT 47/16
C206 0.1/16
R210 150
L202 68u
C211 CH 75p
R211 2.2k
Q202 2SC2412K(QR)
R212 1k
C212 YB 0.1/16
C210 YB 0.1/16
R213 1k
F201 ATF7027
C216 CH 560p
R222 0
Q203 2SA1037K(QR)
R215 1k
C213 YB 0.1/16
R214 1k
VA5
VA5A
L206 ATL7002
R268 stby 0
VA5M
D203 1SS355
R263 47k
Q212 2SB1197K(QR)
R264 1.8k
R265 3.9k
Q211 (2/2) RN1903
VDD5
R267 stby 0
(at L208) R8208 0
R261 47k
Q210 2SB1197K(QR)
R262 1.8k
Q211 (1/2) RN1903
RFON
VD5
R237 4.7k
R235 1.8k
Q/R
C222 YB 1000p
R238 10k
R239 10k
Q209 2SC4081 Q/R
C272 220p CH
C273 YB
R271 STBY
R272 STBY
GNDP1
C260 STBY
VD5A
L203 QTL1013
C234 AT 100/10
GNDD GNDP
DLKI
R269 47k
Q213 2SD1781K(QR)
L207 ATL7002
R266 0 stby
VR5
VR5A
VR5MA
IC203 (1/2) BA4558F-HT
C224 1.0/10 CKSQYB
R240 100k
R241 8.2k
C225 YB 0.1/16
C226 YB 0.1/16
CKSQYB
C223 1.0/10
R236 22k
R255 4.7k
R256 9.9k
R252 10k
C237
C236 0.1/16
R254 1k
R253 10k
C235 0.1/16
C238 470p YB
C241 YB 0.1/16
C239 470p YB
C240 0.1/16
DRST
DSTP
C258 STBY
C257 YB 0.1/16
IC204(1/4) TC74HCT08AF
IC204(2/4)
IC204(4/4)
IC204(3/4)
S 1/5
RFON
DSTP
DRST
DLKI

NOTE

1. RESISTORS

Unit: k:kΩ ,M:MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2. CAPACITORS

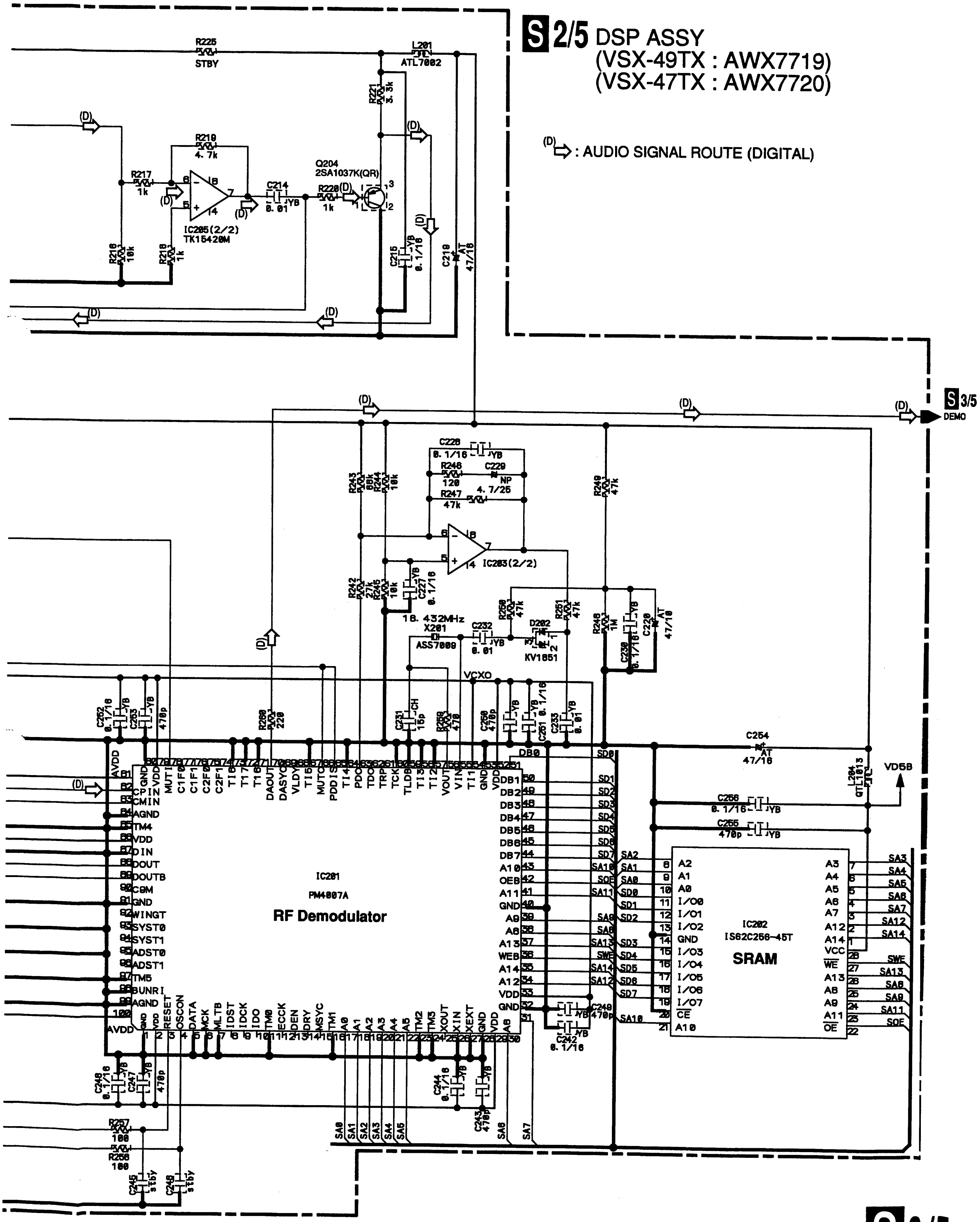
Unit: p:pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

CH. . . . . CCSRCH
YF. . . . . CKSRYF
YB. . . . . CKSRYB
NP. . . . . CEJQNP
JQ. . . . . CEJQ
AT. . . . . CEAT

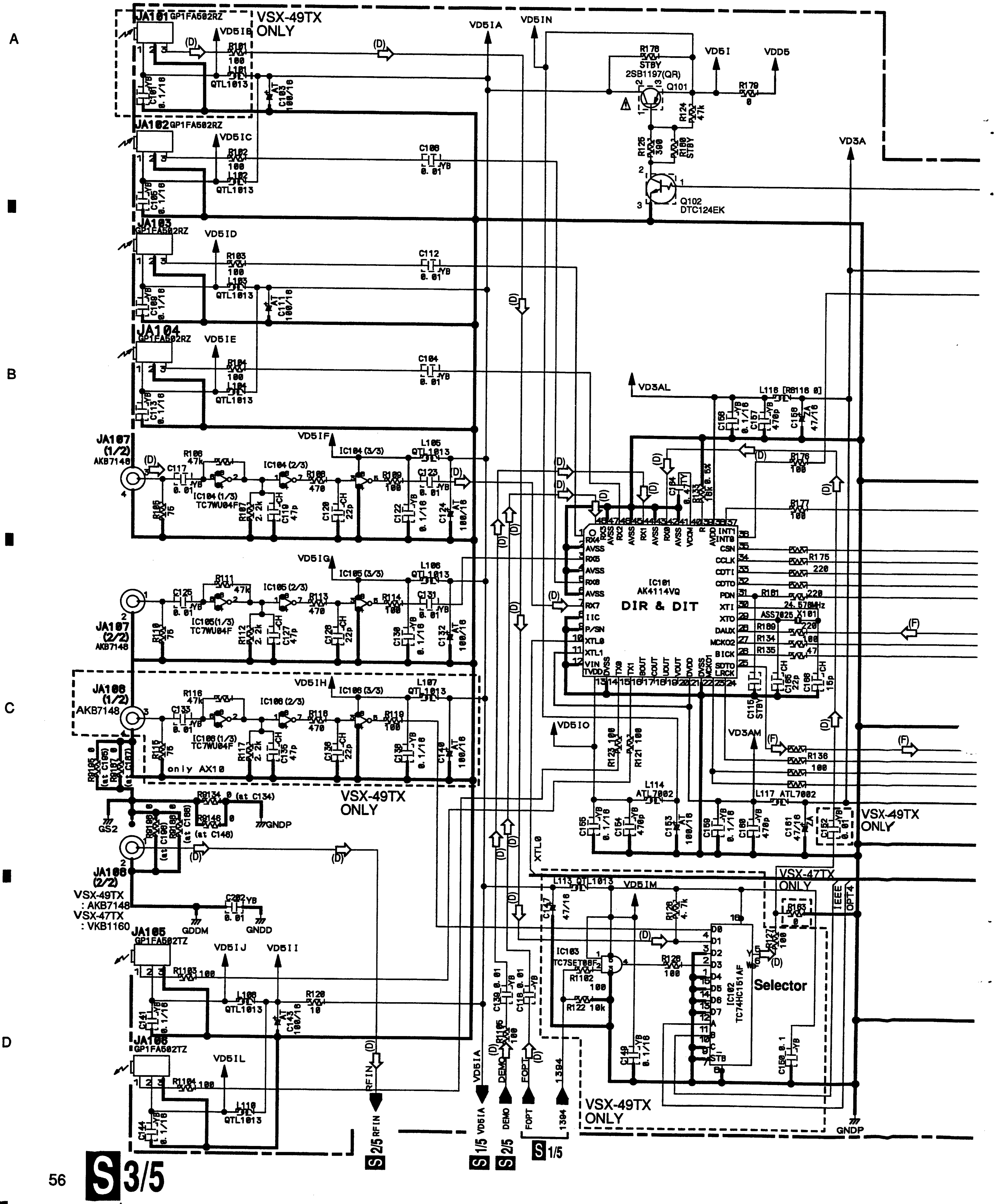
(Indicated "*"mark parts are not used or used.)
(Indicated "stby"mark parts are stand-by cells.)

S 2/5 DSP ASSY
(VSX-49TX : AWX7719)
(VSX-47TX : AWX7720)

(D) : AUDIO SIGNAL ROUTE (DIGITAL)

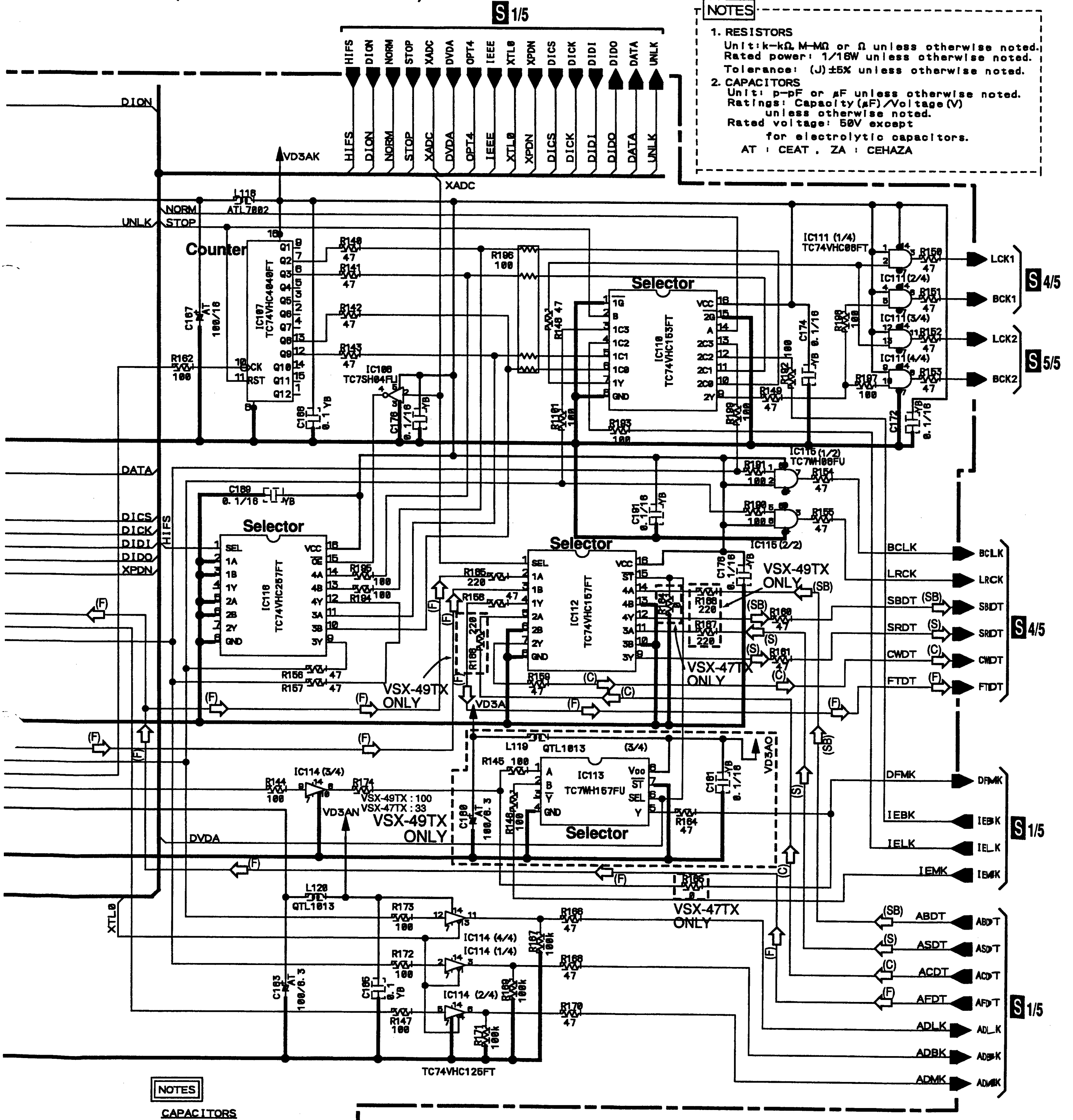

R225 STBY
L201 ATL7002
R221 3.3k
R219 4.7k
R217 1k
IC205(2/2) TK15420M
C214 0.01 YB
R220 1k
Q204 2SA1037K(QR)
R216 10k
R218 1k
C215 0.1/16 YB
C219 AT 47/16
S 3/5 DEMO
C228 0.1/16 YB
R246 120
C229 NP 4.7/25
R247 47k
R243 68k
R244 10k
R249 47k
IC203(2/2)
R242 27k
R245 10k
C227 0.1/16 YB
18.432MHz X201 ASS7009
C232 0.01 YB
R250 47k
D202 KV1651
R251 47k
R248 1M
C230 0.1/16 YB
C220 AT 47/16
VCXO
C262 0.1/16 YB
C263 470p YB
R260 220
C231 15p CH
R259 470
C250 470p YB
C251 0.1/16 YB
C233 0.01 YB
C254 AT 47/16
L204 QTL1013
VD5B
C256 0.1/16 YB
C255 470p YB
IC201 PM4007A
RF Demodulator
AVDD CPIN CMIN AGND TM4 VDD DIN DOUT DOUTB C8M GND WINGT SYST0 SYST1 ADST0 ADST1 TM5 BUNRI AGND
GND VDD MUTI C1F0 C1F1 C2F0 C2F1 TI8 TI7 TI6 DAOUT DASYC VLDY TI5 MUTO PDDIS TI4 PDO TDO TRP TCK TLDB TI3 TI2 VOUT VIN TI1 GND VDD
DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7 A10 OEB A11 GND A9 A8 A13 WEB A14 A12 VDD GND
AVDD GND VDD RESET OSCON DATA MCK MLTB IDST IDCK IDO TM0 ECCK DEN DRY MSYC TM1 A0 A1 A2 A3 A4 A5 TM2 TM3 XOUT XIN XEXT GND VDD A6 A7
C249 470p
C242 0.1/16
IC202 IS62C256-45T
SRAM
A2 A1 A0 I/O0 I/O1 I/O2 GND I/O3 I/O4 I/O5 I/O6 I/O7 CE A10
A3 A4 A5 A6 A7 A12 A14 VCC WE A13 A8 A9 A11 OE
SD0 SD1 SD2 SD3 SD4 SD5 SD6 SD7 SA10 SOE SA11 SA9 SA8 SA13 SWE SA14 SA12
SA0 SA1 SA2 SA3 SA4 SA5 SA6 SA7 SA8 SA9 SA11 SA12 SA13 SA14 SWE SOE
C248 0.1/16 YB
C247 470p YB
C244 0.1/16 YB
C243 470p YB
R257 100
R258 100
C245 STBY
C246 STBY

3.20 DSP ASSY (3/5)


A
B
C
D
JA101 GP1FA502RZ
VSX-49TX ONLY
VD5IB
R101 100
L101 QTL1013
C101 0.1/16
C103 100/16
JA102 GP1FA502RZ
VD5IC
R102 100
L102 QTL1013
C105 0.1/16
C106 0.01
JA103 GP1FA502RZ
VD5ID
R103 100
L103 QTL1013
C109 0.1/16
C111 100/16
C112 0.01
JA104 GP1FA502RZ
VD5IE
R104 100
L104 QTL1013
C113 0.1/16
C104 0.01
VD5IA
VD5IN
R178 STBY
2SB1197(QR)
Q101
R124 47k
R125 390
R180 STBY
Q102 DTC124EK
VD5I
VDD5
R179 0
VD3A
VD3AL
L116 [R8116 0]
C156 0.1/16
C157 470p
C158 47/16
R176 100
R177 100
C184 0.47
R183 18k 0.5X
JA107 (1/2) AKB7148
VD5IF
IC104 (3/3)
L105 QTL1013
R106 47k
C117 0.01
IC104 (1/3) TC7WU04F
IC104 (2/3)
R108 470
R109 100
C123 0.01
R105 75
R107 2.2k
C119 47p
C120 22p
C122 0.1/16
C124 100/16
IC101 AK4114VQ
DIR & DIT
RX4 AVSS RX5 AVSS RX6 AVSS RX7 IIC P/SN XTL0 XTL1 VIN TVDD
DVSS TX0 TX1 BOUT COUT UOUT VOUT DVDD DVSS MCKO1 LRCK
INT1 INT0 CSN CCLK CDTI CDTO PDN XTI XTO DAUX MCKO2 BICK SDTO
RX3 AVSS RX2 AVSS RX1 AVSS RX0 AVSS VCOM R AVDD
R175 220
R181 220
24.576MHz
ASS7025 X101
R189 220
R134 100
R135 47
C115 STBY
C165 22p
C166 15p
VD5IG
IC105 (3/3)
L106 QTL1013
R111 47k
C125 0.01
IC105 (1/3) TC7WU04F
IC105 (2/3)
R113 470
R114 100
C131 0.01
JA107 (2/2) AKB7148
R110 75
R112 2.2k
C127 47p
C128 22p
C130 0.1/16
C132 100/16
JA108 (1/2) AKB7148
VD5IH
IC106 (3/3)
L107 QTL1013
R116 47k
C133 0.01
IC106 (1/3) TC7WU04F
IC106 (2/3)
R118 470
R119 100
R115 75
R117 2.2k
C136 47p
C138 22p
C139 0.1/16
C140 100/16
only AX10
VSX-49TX ONLY
R8165 0 (at C165)
R8187 0 (at C187)
R8134 0 (at C134)
R8146 0 (at C146)
R8188 0 (at C188)
R8186 0 (at C186)
GNDP
GS2
JA108 (2/2)
VSX-49TX : AKB7148
VSX-47TX : VKB1160
C202 0.01
GDDM
GNDD
VD5IO
R123 100
R121 100
VD3AM
R136 100
L114 ATL7002
L117 ATL7002
C155 0.1/16
C154 470p
C153 100/16
C159 0.1/16
C160 470p
C161 47/16
C152 0.01
VSX-49TX ONLY
XTL0
L113 QTL1013
VD5IM
VSX-47TX ONLY
IEEE
OPT4
R163 0
R128 4.7k
C147 47/16
IC103 TC7SET08F
R1102 100
R122 10k
R126 100
R127 100
IC102 TC74HC151AF
Selector
D0 D1 D2 D3 D4 D5 D6 D7 A B C STB
C149 0.1/16
C150 0.1
JA105 GP1FA502TZ
VD5IJ
VD5II
R1103 100
L108 QTL1013
R120 10
C141 0.1/16
C143 100/16
JA106 GP1FA502TZ
VD5IL
R1104 100
L110 QTL1013
C144 0.1/16
C139 0.01
C118 0.01
R1105 0
RFIN
VD5IA
DEMO
FOPT
1394
S 2/5
S 1/5
S 2/5
S 1/5
VSX-49TX ONLY
GNDP
(D)
(F)

S 3/5 DSP ASSY
(VSX-49TX : AWX7719)
(VSX-47TX : AWX7720)

(D)⇨ : AUDIO SIGNAL ROUTE (DIGITAL)
(F)⇨ : AUDIO SIGNAL ROUTE (F)
(C)⇨ : AUDIO SIGNAL ROUTE (C)
(S)⇨ : AUDIO SIGNAL ROUTE (S)
(SB)⇨ : AUDIO SIGNAL ROUTE (SB)

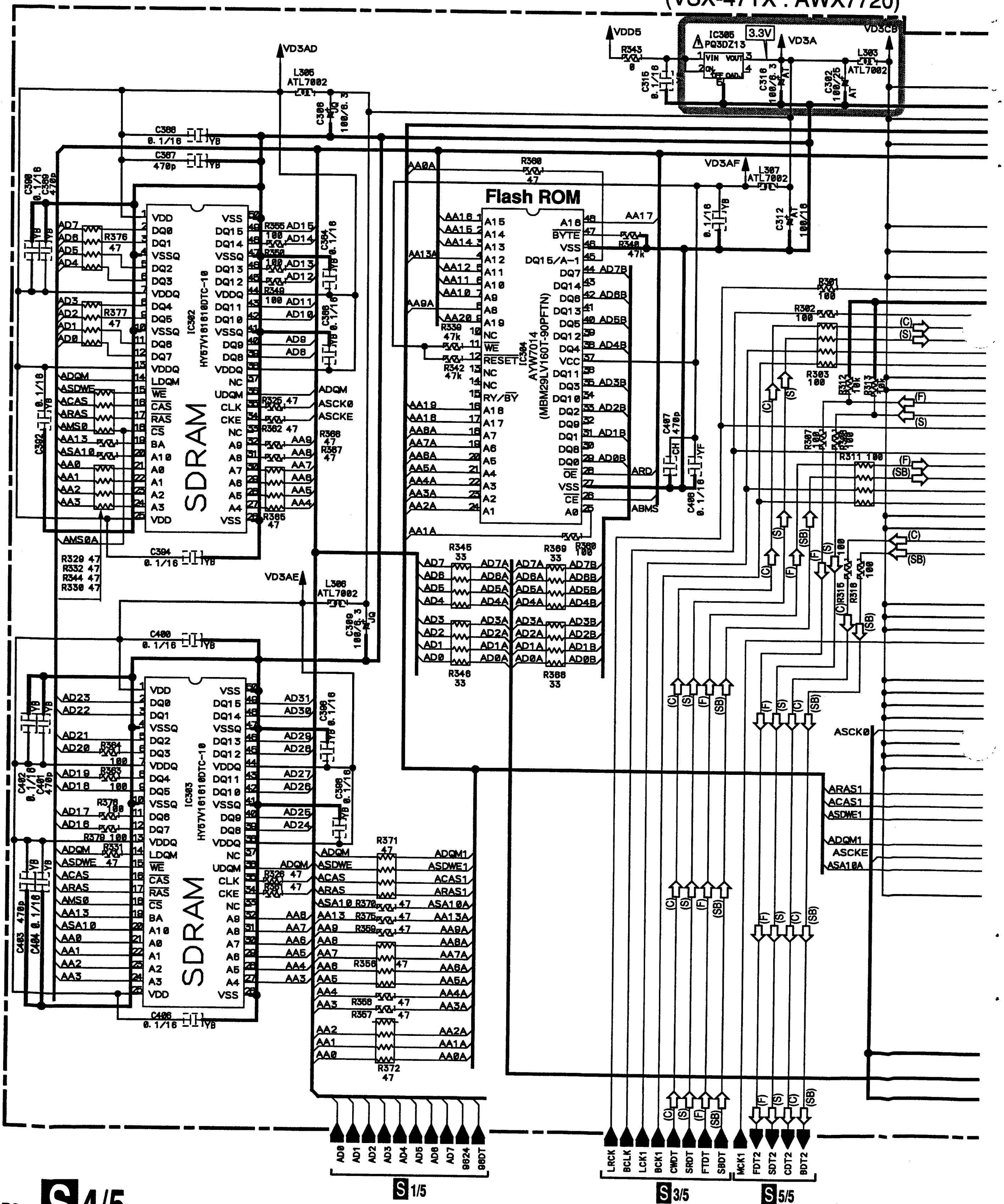

S 1/5
HIFS
DION
NORM
STOP
XADC
DVDA
OPT4
IEEE
XTL0
XPDN
DICS
DICK
DIDI
DIDO
DATA
UNLK
VD3AK
L118 ATL7002
Counter
IC107 TC74VHC4040FT
C167 AT 100/16
R162 100
R140 47
R141 47
R142 47
R143 47
IC108 TC7SH04FU
C168 0.1 YB
C176 0.1/16 YB
R196 100
R148 47
Selector
IC110 TC74VHC153FT
R101 100
R103 100
R189 100
R149 47
R192 100
C174 0.1/16 YB
R190 100
R197 100
IC111 (1/4) TC74VHC08FT
IC111 (2/4)
IC111 (3/4)
IC111 (4/4)
R150 47
R151 47
R152 47
R153 47
C172 0.1/16 YB
LCK1
BCK1
LCK2
BCK2
S 4/5
S 5/5
IC115 (1/2) TC7WH08FU
IC115 (2/2)
R191 100
R199 100
R154 47
R155 47
C191 0.1/16 YB
C189 0.1/16 YB
IC116 TC74VHC257FT
R195 100
R194 100
R156 47
R157 47
IC112 TC74VHC157FT
R185 220
R158 47
R186 220
R188 220
R187 220
R159 47
C178 0.1/16 YB
VSX-49TX ONLY
VSX-47TX ONLY
VD3A
BCLK
LRCK
SBDT
SRDT
CWDT
FTDT
R160 47
R161 47
IC113 TC7WH157FU
L119 QTL1013
R145 100
R146 100
C190 AT 100/6.3
C181 0.1/16 YB
R164 47
VD3AO
R165 0
DFMK
IEBK
IELK
IEMK
S 1/5
IC114 (3/4)
R144 100
R171 VSX-49TX : 100 VSX-47TX : 33
VD3AN
L120 QTL1013
R173 100
R172 100
R147 100
IC114 (4/4)
IC114 (1/4)
IC114 (2/4)
TC74VHC125FT
R166 47
R167 100k
R168 47
R169 100k
R170 47
R171 100k
C183 AT 100/6.3
C185 0.1 YB
ABDT
ASDT
ACDT
AFDT
ADLK
ADBK
ADMK

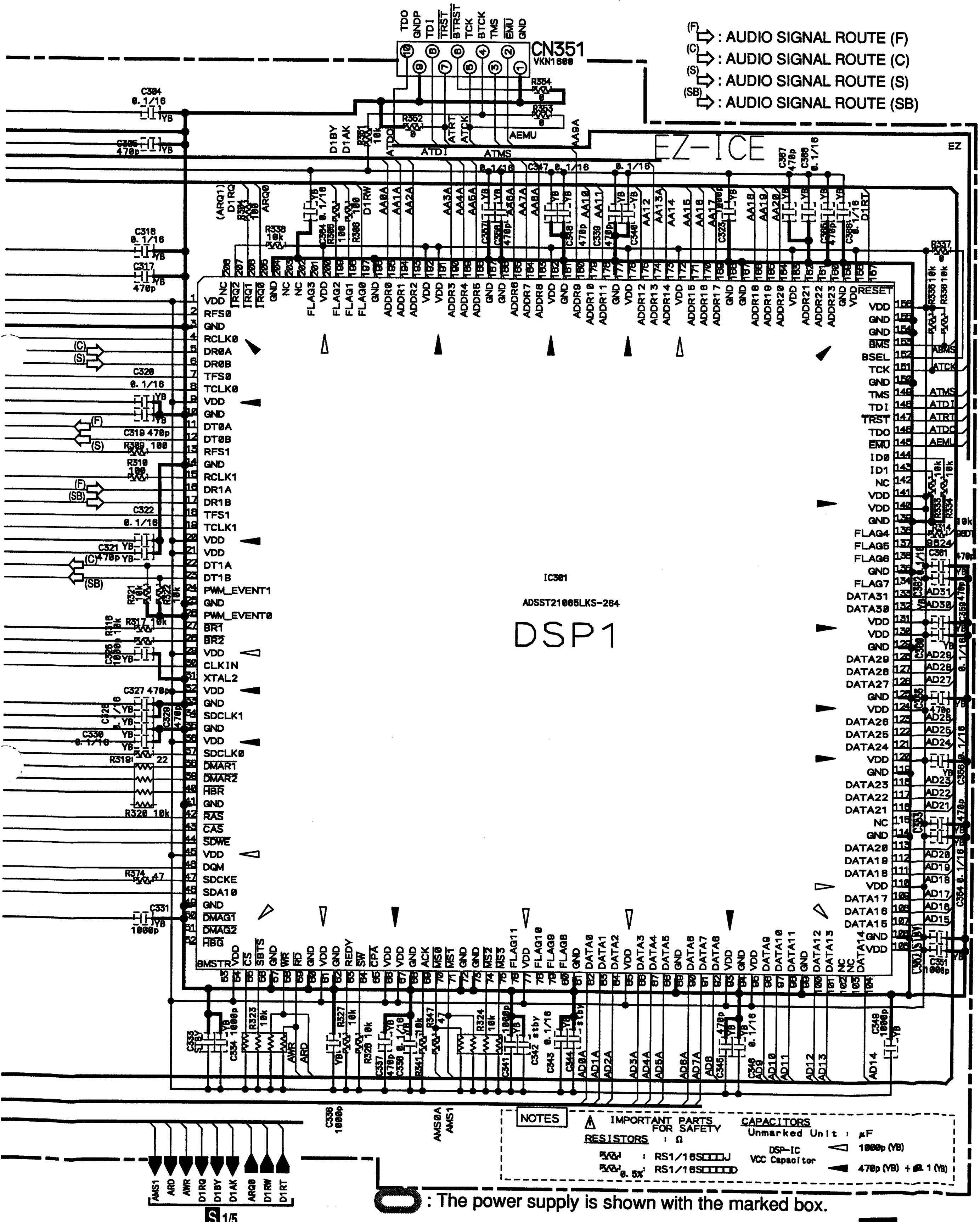
NOTES
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity (μF)/Voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.
AT : CEAT , ZA : CEHAZA

NOTES
CAPACITORS
Unmarked Unit : uF
CKSRYB104K16
RESISTORS : Ω
RS1/16S□□□J

3.21 DSP ASSY (4/5)

S 4/5 DSP ASSY (VSX-49TX : AWX7719)
(VSX-47TX : AWX7720)


A
B
C
D
VDD5
IC305 PQ3DZ13
3.3V
VIN VOUT
ON/OFF CAD
VD3A
VD3CB
R343 0
C315 0.1/16
C316 100/6.3
C302 100/25
L303 ATL7002
VD3AD
L305 ATL7002
C306 100/6.3
C388 0.1/16
C387 470p
C390 0.1/16
C389 470p
VD3AF
L307 ATL7002
C312 100/16
R360 47
Flash ROM
IC304 AYW7014 (MBM29LV160T-90PFTN)
A15 A14 A13 A12 A11 A10 A9 A8 A19 NC WE RESET NC NC RY/BY A18 A17 A7 A6 A5 A4 A3 A2 A1
A16 BYTE VSS DQ15/A-1 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 VCC DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 OE VSS CE A0
R340 47k
R339 47k
R342 47k
C407 470p
C408 0.1/16
ARD
ABMS
SDRAM
IC302 HY57V161610DTC-10
IC303 HY57V161610DTC-10
VDD DQ0 DQ1 VSSQ DQ2 DQ3 VDDQ DQ4 DQ5 VSSQ DQ6 DQ7 VDDQ LDQM WE CAS RAS CS BA A10 A0 A1 A2 A3 VDD
VSS DQ15 DQ14 VSSQ DQ13 DQ12 VDDQ DQ11 DQ10 VSSQ DQ9 DQ8 VDDQ NC UDQM CLK CKE NC A9 A8 A7 A6 A5 A4 VSS
R376 47
R377 47
R355 100
R350 100
R349 100
R325 47
R362 47
R366 47
R367 47
R365 47
C391 0.1/16
C392 0.1/16
C393 0.1/16
C394 0.1/16
C395 0.1/16
AMS0A
R329 47
R332 47
R344 47
R330 47
ADQM ASCK0 ASCKE
R345 33
R346 33
R369 33
R368 33
R308 100
VD3AE
L306 ATL7002
C309 100/6.3
C400 0.1/16
C401 470p
C402 0.1/16
C403 470p
C404 0.1/16
C398 0.1/16
C396 0.1/16
C406 0.1/16
R364 100
R363 100
R378 100
R379 100
R331 47
R326 47
R361 47
R371 47
R370 47
R375 47
R359 47
R356 47
R358 47
R357 47
R372 47
ADQM1 ASDWE1 ACAS1 ARAS1 ASA10A AA13A AA9A AA8A AA7A AA6A AA5A AA4A AA3A AA2A AA1A AA0A
R301 100
R302 100
R303 100
R312 10k
R313 10k
R307 100
R309 100
R311 100
R315 100
R316 100
(C) (S) (F) (SB)
ASCK0
ARAS1 ACAS1 ASDWE1 ADQM1 ASCKE ASA10A
AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7 9824 98DT
S 1/5
LRCK BCLK LCK1 BCK1 CWDT SRDT FTDT SBDT
S 3/5
MCK1 FDT2 SDT2 CDT2 BDT2
S 5/5


CN351
VKN1000
TDO
GNDP
TDI
TRST
BTRST
TCK
BTCK
TMS
EMU
GND
EZ-ICE
EZ
IC301
ADSST21065LKS-284
DSP1
RESET
AMS1
ARD
AWR
D1RQ
D1BY
D1AK
ARQ0
D1RW
D1RT
S 1/5
C336
1000p
AMS0A
AMS1

(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (S)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)

NOTES

⚠ IMPORTANT PARTS FOR SAFETY

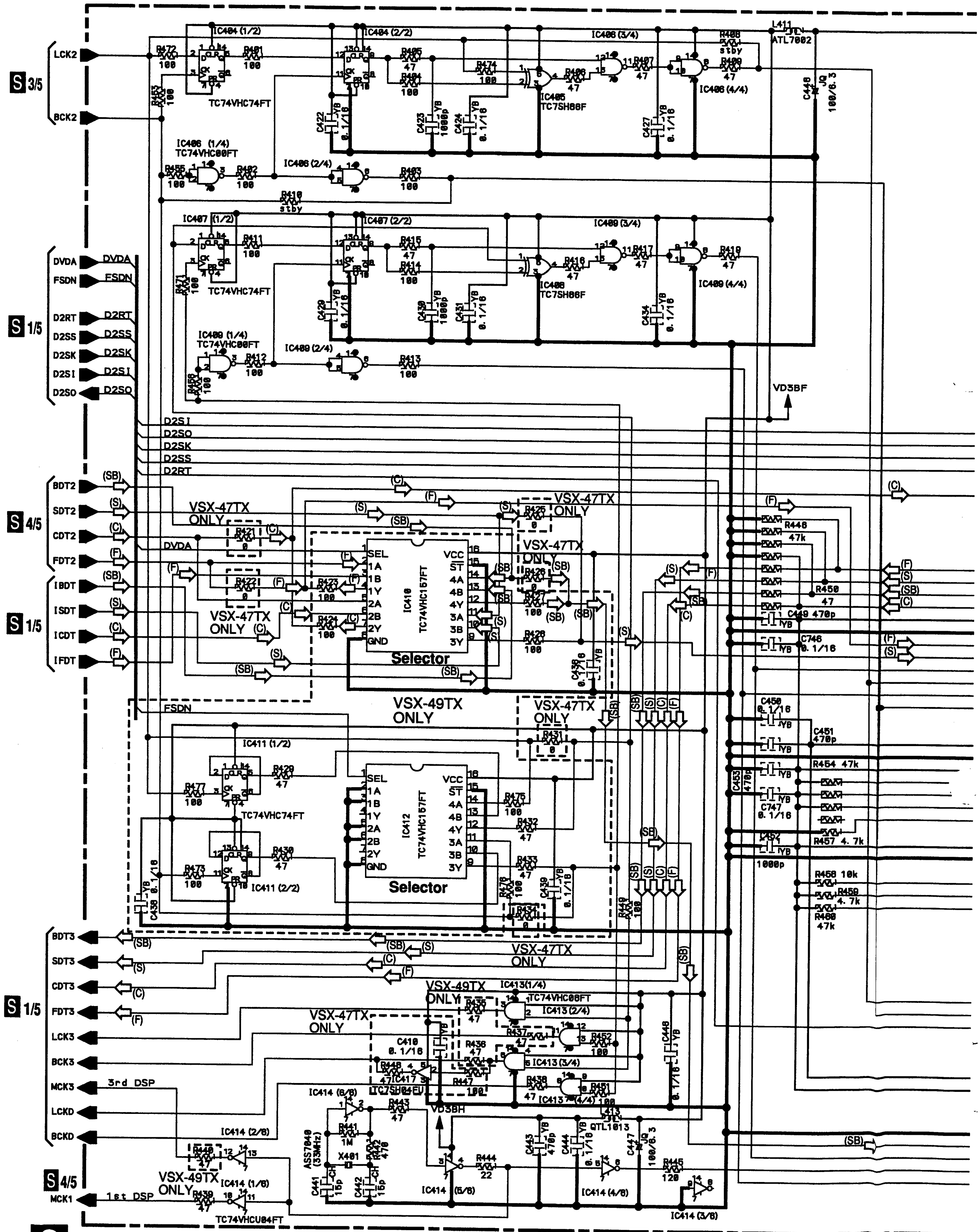
RESISTORS : Ω
: RS1/16S□□□J
0.5%: RS1/16S□□□□D

CAPACITORS
Unmarked Unit : μF

DSP-IC VCC Capacitor
◁ 1000p (YB)
◀ 470p (YB) + 0.1 (YB)

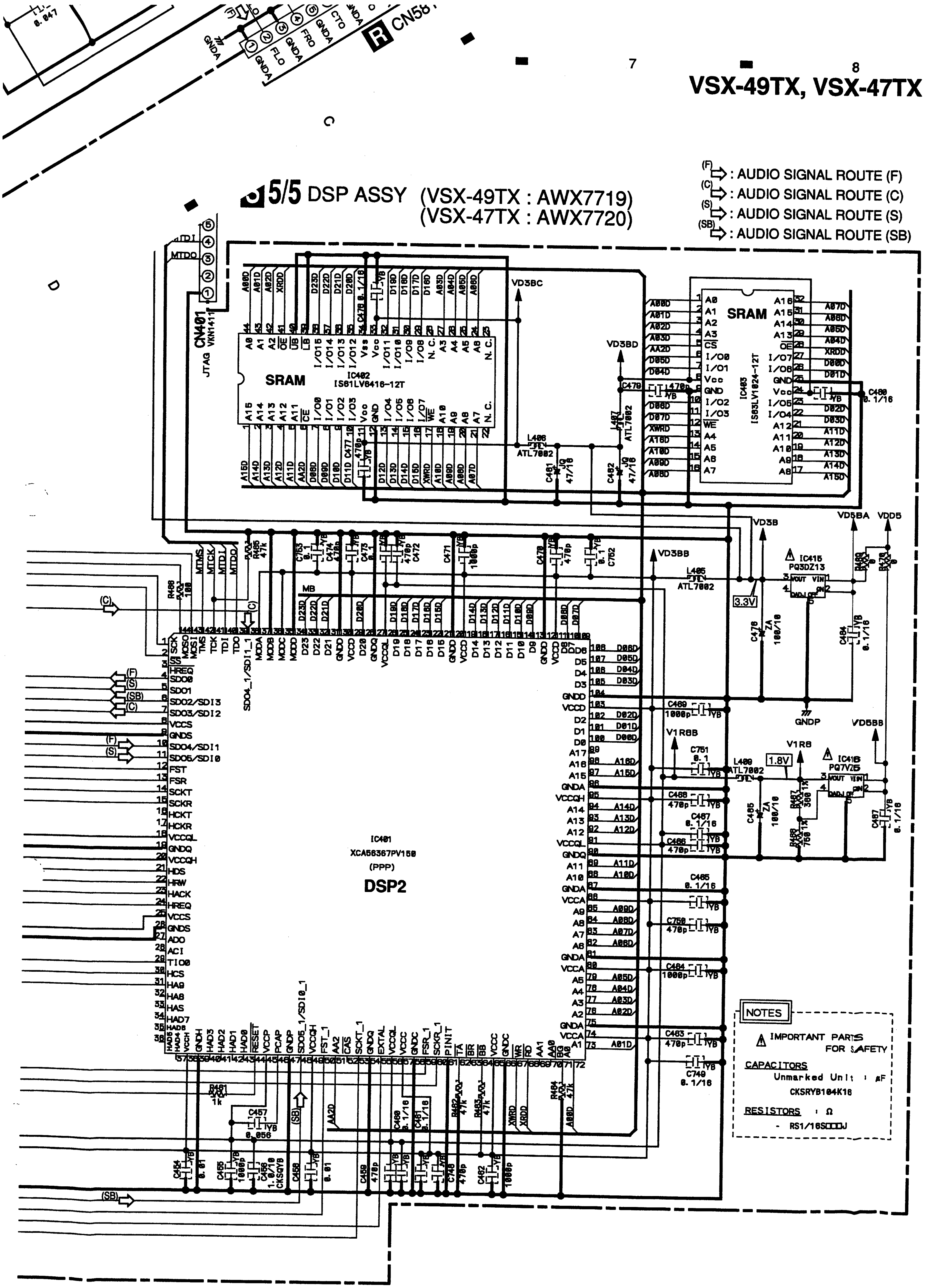
: The power supply is shown with the marked box.

3.22 DSP ASSY (5/5)


S 3/5
LCK2
BCK2
S 1/5
DVDA
FSDN
D2RT
D2SS
D2SK
D2SI
D2SO
S 4/5
BDT2
SDT2
CDT2
FDT2
S 1/5
IBDT
ISDT
ICDT
IFDT
S 1/5
BDT3
SDT3
CDT3
FDT3
LCK3
BCK3
MCK3
LCKD
BCKD
S 4/5
MCK1
3rd DSP
1st DSP
IC404 (1/2)
IC404 (2/2)
TC74VHC74FT
IC405
TC7SH86F
IC406 (1/4)
TC74VHC00FT
IC406 (2/4)
IC406 (3/4)
IC406 (4/4)
IC407 (1/2)
IC407 (2/2)
IC408
TC7SH86F
IC409 (1/4)
TC74VHC00FT
IC409 (2/4)
IC409 (3/4)
IC409 (4/4)
L411
ATL7002
R488 stby
R410 stby
VD3BF
C448 100/6.3
IC410
TC74VHC157FT
Selector
IC412
TC74VHC157FT
Selector
SEL
1A
1B
1Y
2A
2B
2Y
GND
VCC
ST
4A
4B
4Y
3A
3B
3Y
IC411 (1/2)
IC411 (2/2)
TC74VHC74FT
VSX-47TX ONLY
VSX-49TX ONLY
(SB)
(S)
(C)
(F)
R446 47k
R450 47
C449 470p
C746 0.1/16
C450 0.1/16
C451 470p
C453 470p
R454 47k
C747 0.1/16
C452 1000p
R457 4.7k
R458 10k
R459 4.7k
R460 47k
IC413(1/4)
TC74VHC00FT
IC413(2/4)
IC413(3/4)
IC413(4/4)
IC417
TC7SH04FU
C410 0.1/16
VD3BH
IC414 (6/6)
IC414 (2/6)
IC414 (1/6)
IC414 (5/6)
IC414 (4/6)
IC414 (3/6)
TC74VHCU04FT
X401
ASS7040 (33MHz)
R441 1M
R442 470
C441 15p
C442 15p
R443 47
R444 22
R445 120
L413
QTL1013
C443 470p
C444 0.1/16
C447 100/6.3
R439 47
R440 47

S 5/5 DSP ASSY (VSX-49TX : AWX7719)
(VSX-47TX : AWX7720)

(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (S)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)


R CN58
GNDA
FLO
FRO
CTO
CN401
VKN1411
JTAG
MTDI
MTDO
SRAM
IC402
IS61LV6416-12T
SRAM
IC403
IS61LV1024-12T
VD3BC
VD3BD
VD3B
VD3BB
VD5BA
VDD5
VD5BB
V1R8B
V1R8
L406 ATL7002
L407 ATL7002
L408 ATL7002
L409 ATL7002
3.3V
1.8V
IC415 PQ3DZ13
IC416 PQ7VZ5
GNDP
IC401
XCA56367PV150
(PPP)
DSP2
MTMS
MTCK
MTDI
MTDO
MB

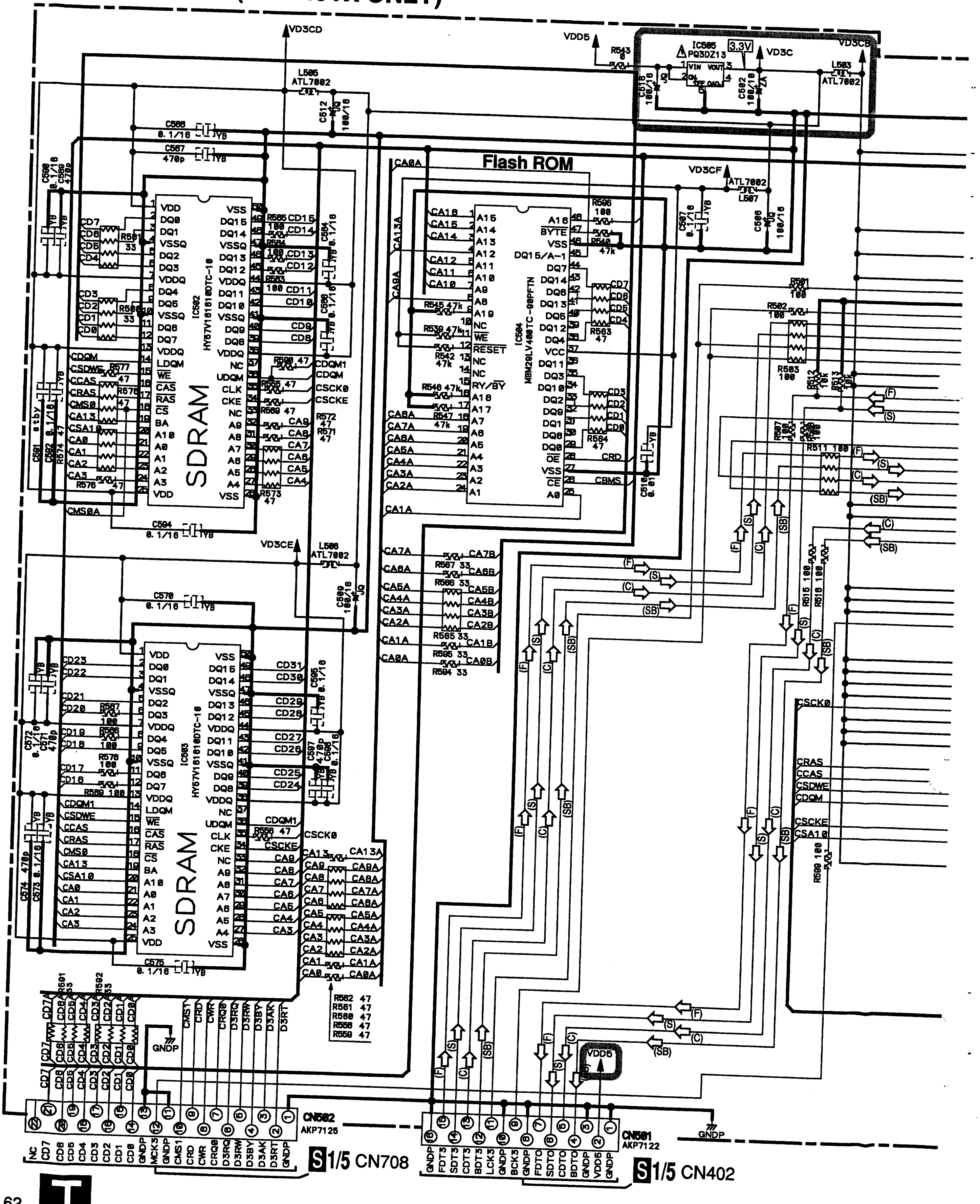
NOTES

⚠ IMPORTANT PARTS FOR SAFETY

CAPACITORS
Unmarked Unit : µF
CKSRYB104K16

RESISTORS : Ω
- RS1/16S□□□J

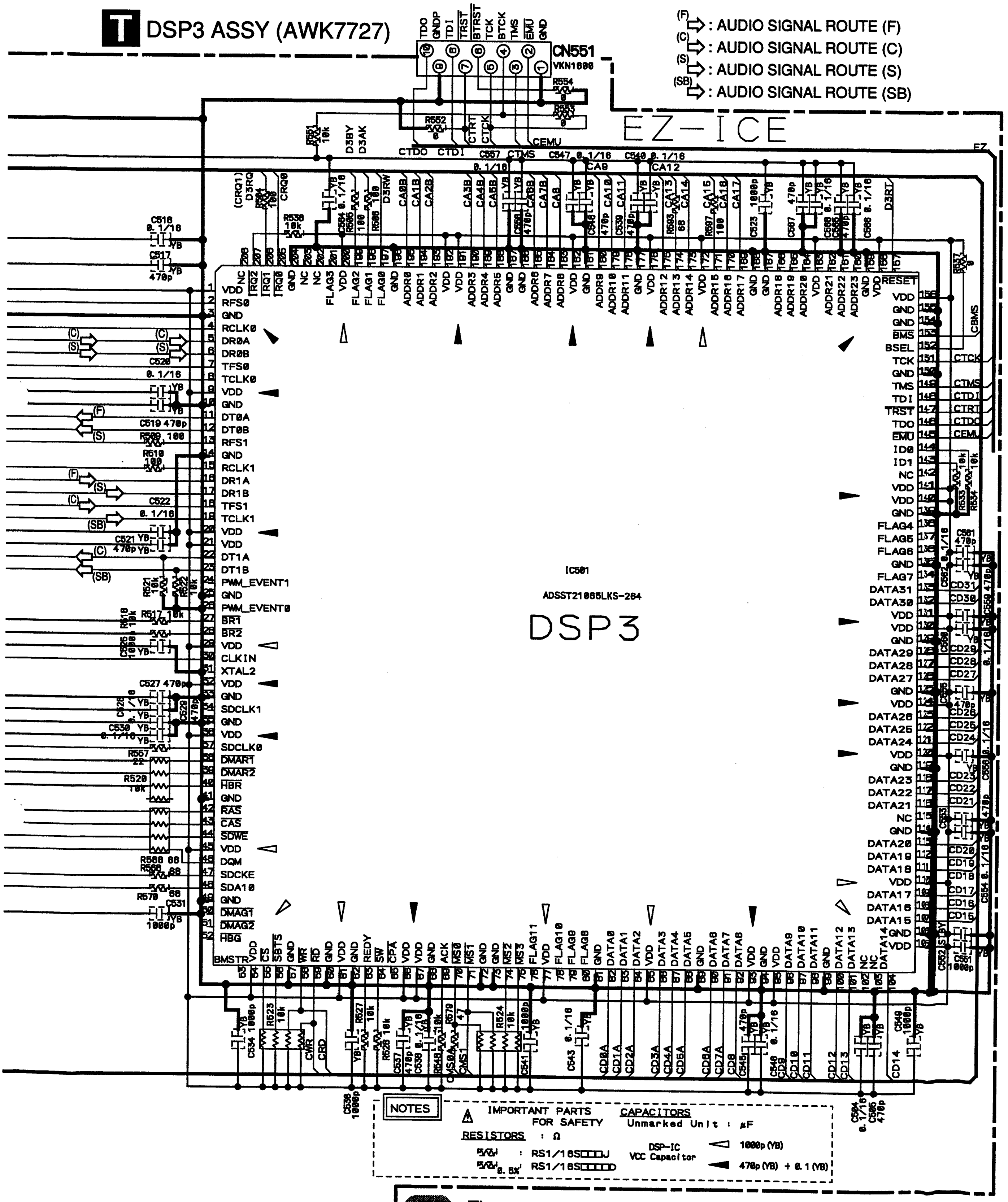
3.23 DSP3 ASSY (VSX-49TX ONLY)


VD3CD
VDD5
R543 0
IC505 PQ3DZ13
3.3V
VD3C
VD3CB
L503 ATL7002
L505 ATL7002
C512 100/16
C506 0.1/16
C507 470p
C510 100/16
C502 100/10
Flash ROM
VD3CF
ATL7002
L507
IC502 HY57V161610DTC-10
SDRAM
IC504 MBM29LV400TC-90PFTN
IC503 HY57V161610DTC-10
SDRAM
VD3CE
L506 ATL7002
C570 0.1/16
C575 0.1/16
C594 0.1/16
CSCK0
CRAS
CCAS
CSDWE
CDQM
CSCKE
CSA10
GNDP
VDD5
CN502 AKP7125
NC CD7 CD6 CD5 CD4 CD3 CD2 CD1 CD0 GNDP MCK3 GNDP CMS1 CRD CWR CRQ0 D3RQ D3RW D3BY D3AK D3RT GNDP
1/5 CN708
CN501 AKP7122
GNDP FDT3 SDT3 CDT3 BDT3 LCK3 GNDP BCK3 GNDP FDTO SDTO CDTO BDTO GNDP VDD5 GNDP
1/5 CN402
(F) (S) (C) (SB)

T

T DSP3 ASSY (AWK7727)

(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (S)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)


CN551
VKN1080
TDO GNDP TDI TRST BTRST TCK BTCK TMS EMU GND
EZ-ICE
IC501
ADSST21065LKS-264
DSP3
R554 R555 R552 R551 10k
CTDO CTDI CTMS CEMU CTRT CTCK
CA9 CA12
D3BY D3AK D3RW D3RT
VDD RFS0 GND RCLK0 DR0A DR0B TFS0 TCLK0 VDD GND DT0A DT0B RFS1 GND RCLK1 DR1A DR1B TFS1 TCLK1 VDD VDD DT1A DT1B PWM_EVENT1 GND PWM_EVENT0 BR1 BR2 VDD CLKIN XTAL2 VDD GND SDCLK1 GND VDD SDCLK0 DMAR1 DMAR2 HBR GND RAS CAS SDWE VDD DQM SDCKE SDA10 GND DMAG1 DMAG2 HBG
RESET VDD GND GND BMS BSEL TCK GND TMS TDI TRST TDO EMU ID0 ID1 NC VDD VDD GND FLAG4 FLAG5 FLAG6 GND FLAG7 DATA31 DATA30 VDD VDD GND DATA29 DATA28 DATA27 GND VDD DATA26 DATA25 DATA24 VDD GND DATA23 DATA22 DATA21 NC GND DATA20 DATA19 DATA18 VDD DATA17 DATA16 DATA15 GND VDD
BMSTR VDD CS SBTS GND WR RD GND VDD GND REDY SW CPA VDD VDD GND ACK MS0 MS1 GND GND MS2 MS3 FLAG11 VDD FLAG10 FLAG9 FLAG8 GND DATA0 DATA1 DATA2 VDD DATA3 DATA4 DATA5 GND DATA6 DATA7 DATA8 VDD GND VDD DATA9 DATA10 DATA11 GND DATA12 DATA13 NC NC DATA14
NC TRQ2 TRQ1 TRQ0 GND NC NC FLAG3 VDD FLAG2 FLAG1 FLAG0 GND ADDR0 ADDR1 ADDR2 VDD ADDR3 ADDR4 ADDR5 GND ADDR6 ADDR7 ADDR8 VDD GND ADDR9 ADDR10 ADDR11 GND VDD ADDR12 ADDR13 ADDR14 VDD ADDR15 ADDR16 ADDR17 GND GND ADDR18 ADDR19 ADDR20 VDD ADDR21 ADDR22 ADDR23 GND VDD
CD0A CD1A CD2A CD3A CD4A CD5A CD6A CD7A CD8 CD9 CD10 CD11 CD12 CD13 CD14 CD15 CD16 CD17 CD18 CD19 CD20 CD21 CD22 CD23 CD24 CD25 CD26 CD27 CD28 CD29 CD30 CD31
CWR CRD CMS0 CMS1 CBMS

NOTES

⚠ IMPORTANT PARTS FOR SAFETY

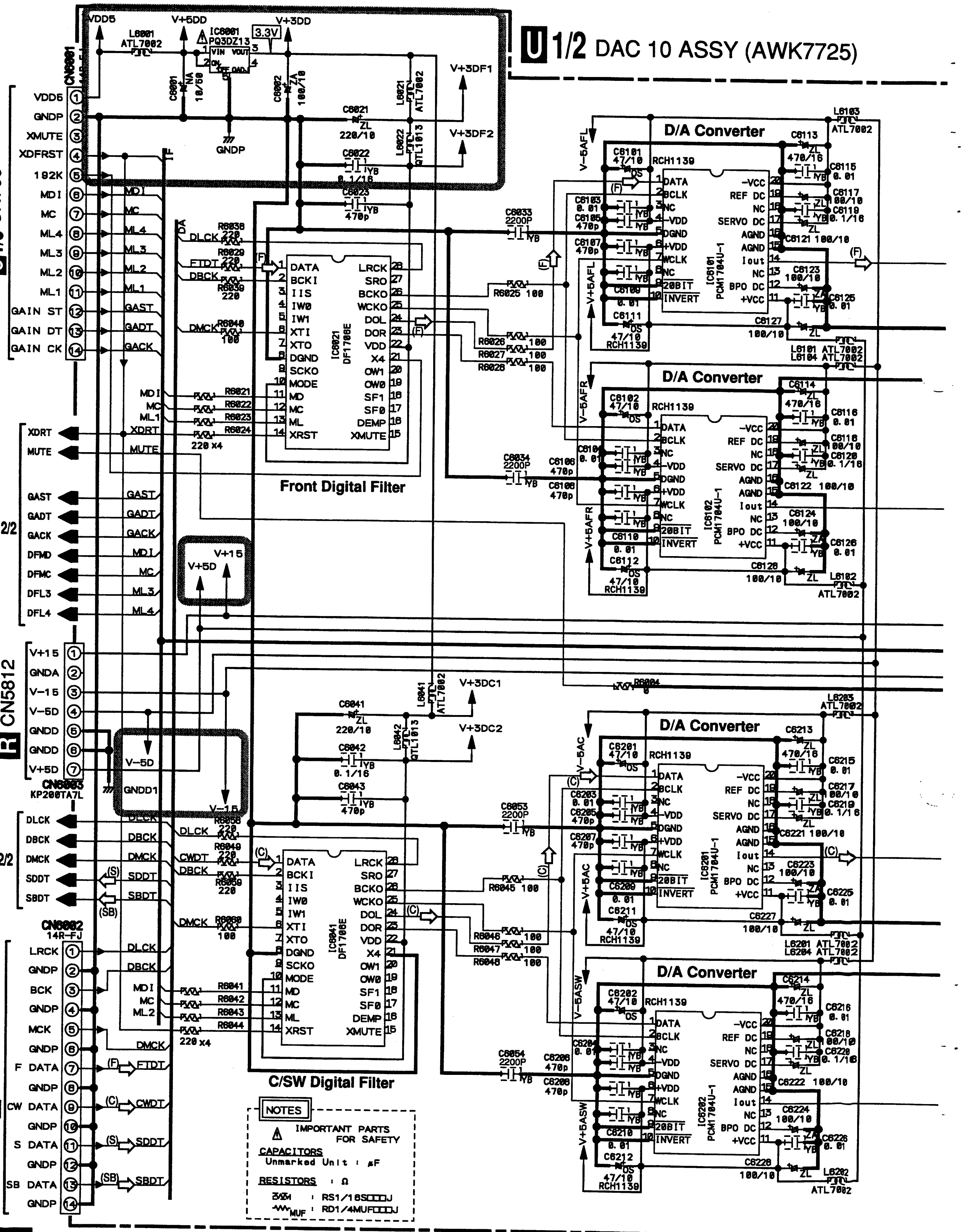
RESISTORS : Ω
RS1/16S□□□J
0.5% RS1/16S□□□□D

CAPACITORS Unmarked Unit : µF

DSP-IC VCC Capacitor
◁ 1000p (YB)
◀ 470p (YB) + 0.1 (YB)

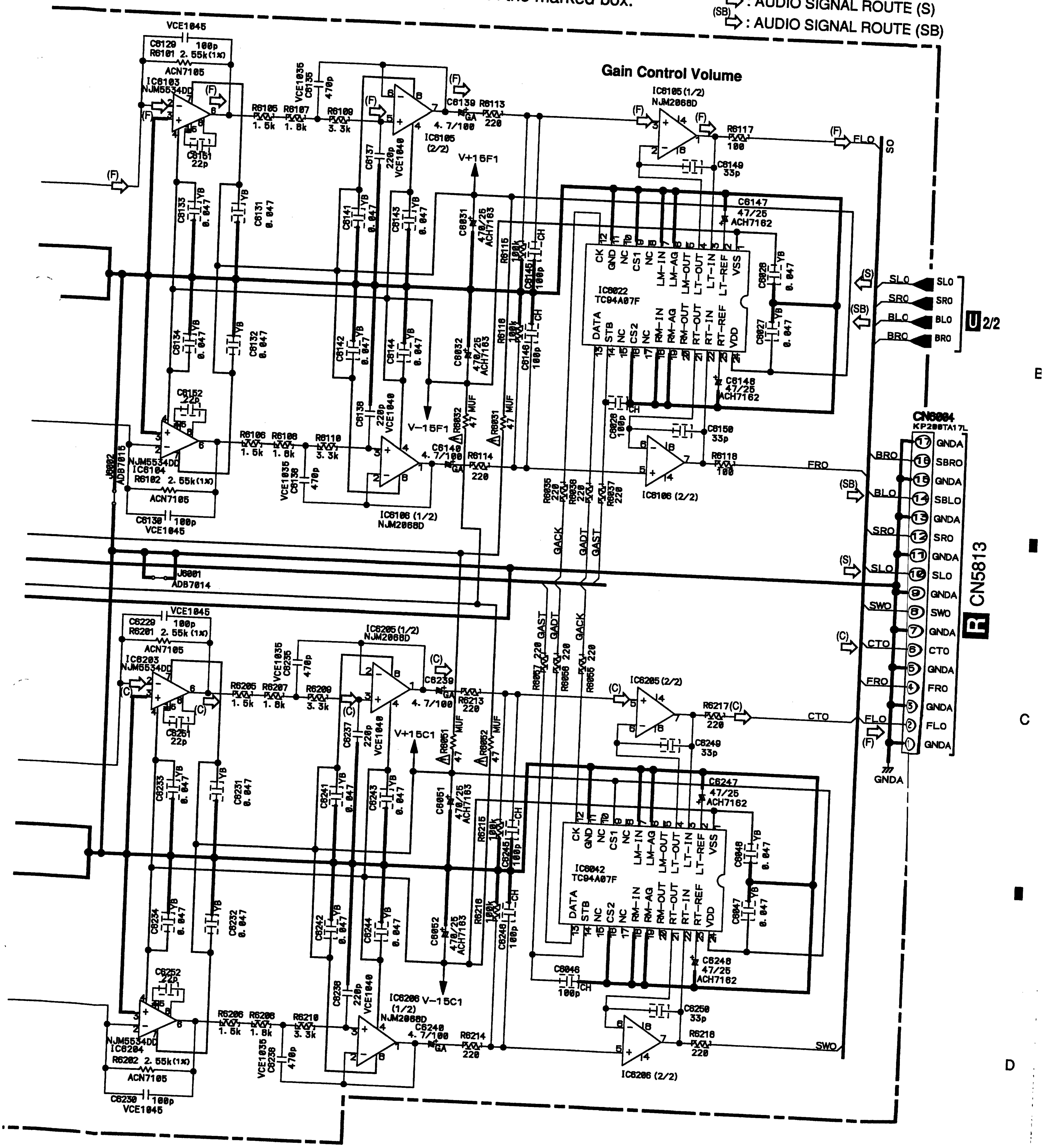
⬭ : The power supply is shown with the marked box.

3.24 DAC10 ASSY (1/2) (VSX-49TX ONLY)

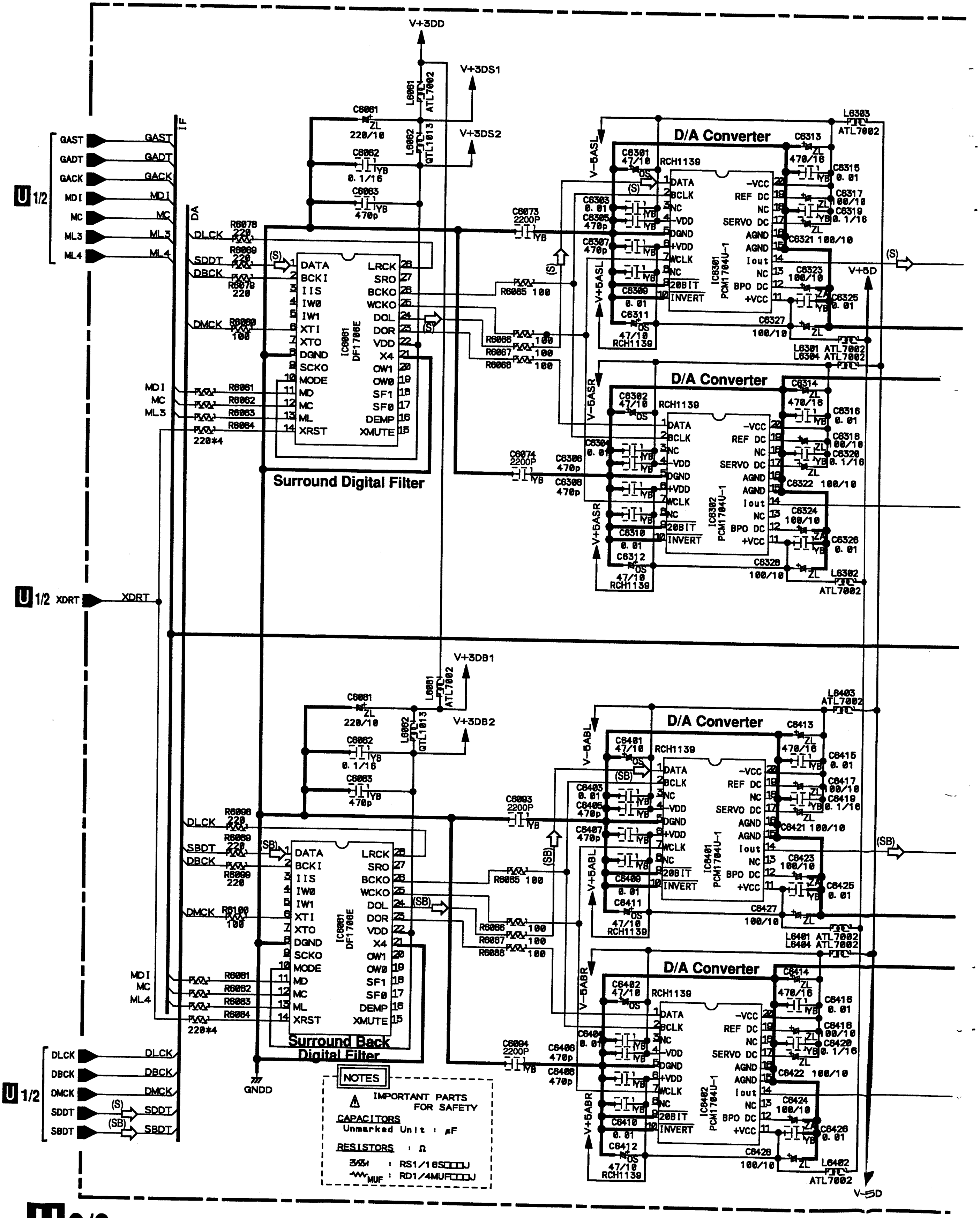

U 1/2 DAC 10 ASSY (AWK7725)
A
B
C
D
S 1/5 CN706
CN6001
VDD5
GNDP
XMUTE
XDFRST
192K
MDI
MC
ML4
ML3
ML2
ML1
GAIN ST
GAIN DT
GAIN CK
VDD5
V+5DD
V+3DD
L6001 ATL7002
IC6001 PQ3DZ13
3.3V
VIN VOUT
C6001
C6002
C6021 ZL 220/10
C6022 IYB 0.1/16
C6023 IYB 470p
L6021 ATL7002
L6022 QTL1013
V+3DF1
V+3DF2
GNDP
R6038 220
R6029 220
R6039 220
R6040 100
DLCK
FTDT
DBCK
DMCK
R6021
R6022
R6023
R6024
220 x4
IC6021 DF1706E
DATA
BCKI
IIS
IW0
IW1
XTI
XTO
DGND
SCKO
MODE
MD
MC
ML
XRST
LRCK
SRO
BCKO
WCKO
DOL
DOR
VDD
X4
OW1
OW0
SF1
SF0
DEMP
XMUTE
Front Digital Filter
U 2/2
XDRT
MUTE
GAST
GADT
GACK
DFMD
DFMC
DFL3
DFL4
V+5D
V+15
R CN5812
V+15
GNDA
V-15
V-5D
GNDD
GNDD
V+5D
CN6003 KP200TA7L
V-5D
GNDD1
V-15
U 2/2
DLCK
DBCK
DMCK
SDDT
SBDT
(S)
(SB)
S 1/5 CN707
CN6002 14R-FJ
LRCK
GNDP
BCK
GNDP
MCK
GNDP
F DATA
GNDP
CW DATA
GNDP
S DATA
GNDP
SB DATA
GNDP
(F) FTDT
(C) CWDT
(S) SDDT
(SB) SBDT
C6041 ZL 220/10
C6042 IYB 0.1/16
C6043 IYB 470p
L6041 ATL7002
L6042 QTL1013
V+3DC1
V+3DC2
R6058 220
R6049 220
R6059 220
R6060 100
R6041
R6042
R6043
R6044
220 x4
IC6041 DF1706E
C/SW Digital Filter
D/A Converter
RCH1139
IC6101 PCM1704U-1
IC6102 PCM1704U-1
IC6201 PCM1704U-1
IC6202 PCM1704U-1
DATA
BCLK
NC
-VDD
DGND
+VDD
WCLK
NC
20BIT
INVERT
-VCC
REF DC
NC
SERVO DC
AGND
AGND
Iout
NC
BPO DC
+VCC
V-5AFL
V+5AFL
V-5AFR
V+5AFR
V-5AC
V+5AC
V-5ASW
V+5ASW
C6033 2200P
C6034 2200P
C6053 2200P
C6054 2200P
R6025 100
R6026 100
R6027 100
R6028 100
R6045 100
R6046 100
R6047 100
R6048 100
R6004 0
C6101 47/10
C6102 47/10
C6111 47/10 RCH1139
C6112 47/10 RCH1139
C6113 470/16
C6114 470/16
C6117 100/10
C6118 100/10
C6119 0.1/16
C6120 0.1/16
C6121 100/10
C6122 100/10
C6123 100/10
C6124 100/10
C6127 100/10
C6128 100/10
L6101 ATL7002
L6102 ATL7002
L6103 ATL7002
L6104 ATL7002
C6201 47/10
C6202 47/10
C6211 47/10 RCH1139
C6212 47/10 RCH1139
C6213 470/16
C6214 470/16
C6221 100/10
C6222 100/10
C6223 100/10
C6224 100/10
C6227 100/10
C6228 100/10
L6201 ATL7002
L6202 ATL7002
L6203 ATL7002
L6204 ATL7002
(F)
(C)
NOTES
⚠ IMPORTANT PARTS FOR SAFETY
CAPACITORS
Unmarked Unit : μF
RESISTORS : Ω
RS1/16S□□□J
RD1/4MUF□□□J

(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (S)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)

▭ : The power supply is shown with the marked box.


Gain Control Volume
VCE1045
C6129 100p
R6101 2.55k(1%)
ACN7105
IC6103
NJM5534DD
C6151 22p
R6105 1.5k
R6107 1.8k
R6109 3.3k
VCE1035 C6135 470p
IC6105 (2/2)
C6137 220p VCE1040
C6139 4.7/100 GA
R6113 220
V+15F1
IC6105 (1/2)
NJM2068D
R6117 100
C6149 33p
FLO
SO
C6133 0.047 YB
C6131 0.047 YB
C6141 0.047 YB
C6143 0.047 YB
C6031 470/25 ACH7163
R6115 100k
C6145 100p CH
C6147 47/25 ACH7162
IC6022
TC94A07F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C6026 0.047 YB
C6027 0.047 YB
C6134 0.047 YB
C6132 0.047 YB
C6142 0.047 YB
C6144 0.047 YB
C6032 470/25 ACH7163
R6116 100k
C6146 100p CH
C6148 47/25 ACH7162
C6028 100p CH
C6150 33p
R6032 47 MUF
R6031 47 MUF
V-15F1
C6152 22p
R6106 1.5k
R6108 1.8k
R6110 3.3k
C6138 220p VCE1040
C6140 4.7/100
R6114 220
IC6104
NJM5534DD
R6102 2.55k(1%)
ACN7105
C6130 100p
VCE1045
VCE1035 C6136 470p
IC6106 (1/2)
NJM2068D
IC6106 (2/2)
R6118 100
FRO
J6002 ADB7015
R6035 220
R6036 220
R6037 220
GACK GADT GAST
J6001 ADB7014
SLO SRO BLO BRO
U 2/2
CN6004
KP200TA17L
17 GNDA
16 SBRO
15 GNDA
14 SBLO
13 GNDA
12 SRO
11 GNDA
10 SLO
9 GNDA
8 SWO
7 GNDA
6 CTO
5 GNDA
4 FRO
3 GNDA
2 FLO
1 GNDA
R CN5813
GNDA
C6229 100p
VCE1045
R6201 2.55k(1%)
ACN7105
IC6203
NJM5534DD
C6251 22p
R6205 1.5k
R6207 1.8k
R6209 3.3k
VCE1035 C6235 470p
IC6205 (1/2)
NJM2068D
C6237 220p VCE1040
C6239 4.7/100 GA
R6213 220
V+15C1
R6051 47 MUF
R6052 47 MUF
R6057 220
R6058 220
R6055 220
IC6205 (2/2)
R6217 220
CTO
C6249 33p
C6233 0.047 YB
C6231 0.047 YB
C6241 0.047 YB
C6243 0.047 YB
C6051 470/25 ACH7163
R6215 100k
C6245 100p CH
C6247 47/25 ACH7162
IC6042
TC94A07F
C6048 0.047 YB
C6047 0.047 YB
C6234 0.047 YB
C6232 0.047 YB
C6242 0.047 YB
C6244 0.047 YB
C6052 470/25 ACH7163
R6216 100k
C6246 100p CH
C6248 47/25 ACH7162
C6046 100p CH
C6250 33p
C6252 22p
R6206 1.5k
R6208 1.8k
R6210 3.3k
C6238 220p VCE1040
IC6206 (1/2)
NJM2068D
V-15C1
C6240 4.7/100 GA
R6214 220
IC6206 (2/2)
R6218 220
SWO
IC6204
NJM5534DD
R6202 2.55k(1%)
ACN7105
C6230 100p
VCE1045
VCE1035 C6236 470p

3.25 DAC10 ASSY (2/2) (VSX-49TX ONLY)


V+3DD
V+3DS1
V+3DS2
L6061 ATL7002
L6062 QTL1013
C6061 ZL 220/10
C6062 YB 0.1/16
C6063 YB 470p
U 1/2
GAST
GADT
GACK
MDI
MC
ML3
ML4
IF
DA
DLCK
SDDT
DBCK
DMCK
R6078 220
R6069 220
R6079 220
R6080 100
(S)
DATA
BCKI
IIS
IW0
IW1
XTI
XTO
DGND
SCKO
MODE
MD
MC
ML
XRST
LRCK
SRO
BCKO
WCKO
DOL
DOR
VDD
X4
OW1
OW0
SF1
SF0
DEMP
XMUTE
IC6061 DF1706E
R6061
R6062
R6063
R6064
220*4
Surround Digital Filter
C6073 2200P YB
C6074 2200P YB
R6065 100
R6066 100
R6067 100
R6068 100
D/A Converter
V-5ASL
V+5ASL
V-5ASR
V+5ASR
C6301 47/10 DS RCH1139
RCH1139
C6303 0.01
C6305 470p
C6307 470p
C6309 0.01
C6311 47/10 RCH1139
-VCC
REF DC
NC
SERVO DC
AGND
Iout
BPO DC
+VCC
-VDD
+VDD
WCLK
20BIT
INVERT
IC6301 PCM1704U-1
C6313 ZL 470/16
C6315 0.01
C6317 100/10
C6319 0.1/16
C6321 100/10
C6323 100/10
C6325 0.01
C6327 100/10
L6303 ATL7002
L6301 ATL7002
L6304 ATL7002
V+5D
C6302 47/10 DS
C6304 0.01
C6306 470p
C6308 470p
C6310 0.01
C6312 47/10 RCH1139
IC6302 PCM1704U-1
C6314 ZL 470/16
C6316 0.01
C6318 100/10
C6320 0.1/16
C6322 100/10
C6324 100/10
C6326 0.01
C6328 100/10
L6302 ATL7002
XDRT
V+3DB1
V+3DB2
R6098 220
R6099 220
R6100 100
(SB)
SBDT
IC6081 DF1706E
Surround Back Digital Filter
C6093 2200P YB
C6094 2200P YB
V-5ABL
V+5ABL
V-5ABR
V+5ABR
C6401 47/10 RCH1139
C6403 0.01
C6405 470p
C6407 470p
C6409 0.01
C6411 47/10 RCH1139
IC6401 PCM1704U-1
C6413 470/16
C6415 0.01
C6417 100/10
C6419 0.1/16
C6421 100/10
C6423 100/10
C6425 0.01
C6427 100/10
L6403 ATL7002
L6401 ATL7002
L6404 ATL7002
C6402 47/10 RCH1139
C6404 0.01
C6406 470p
C6408 470p
C6410 0.01
C6412 47/10 RCH1139
IC6402 PCM1704U-1
C6414 470/16
C6416 0.01
C6418 100/10
C6420 0.1/16
C6422 100/10
C6424 100/10
C6426 0.01
C6428 100/10
L6402 ATL7002
V-5D
GNDD
DLCK
DBCK
DMCK
SDDT
SBDT

NOTES

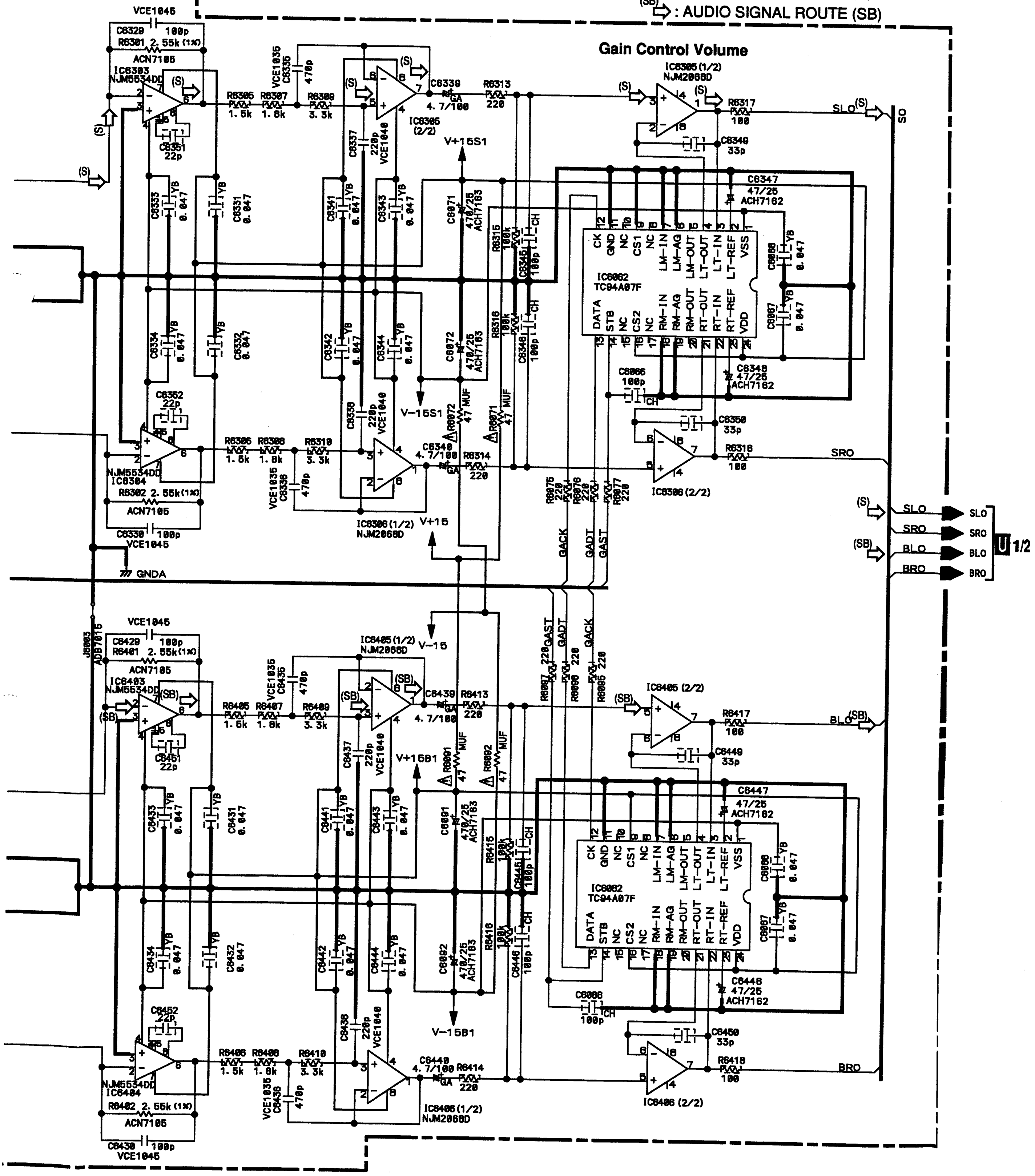
⚠ IMPORTANT PARTS FOR SAFETY

CAPACITORS
Unmarked Unit : µF

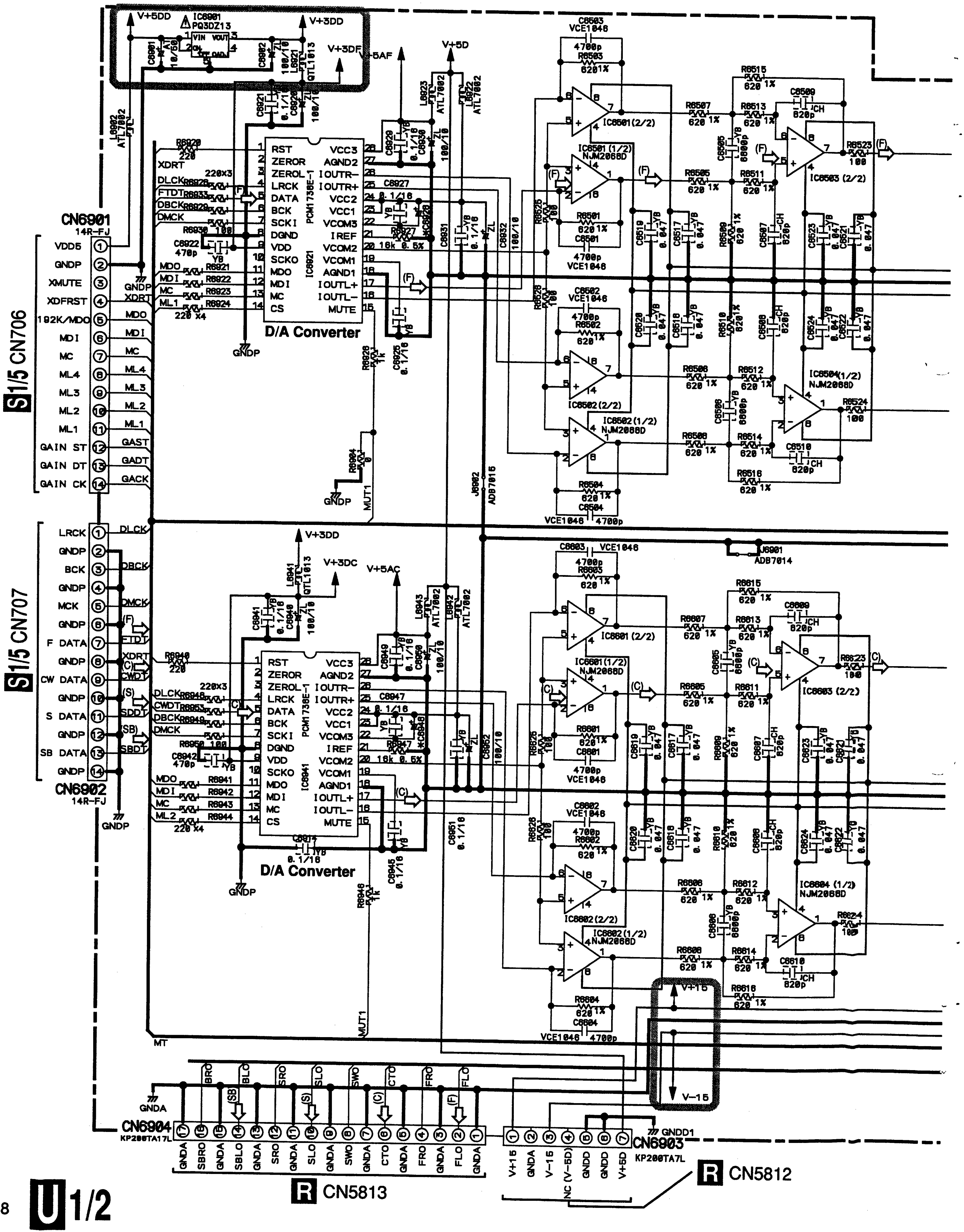
RESISTORS : Ω
: RS1/16S□□□J
MUF : RD1/4MUF□□□J

U 2/2 DAC 10 ASSY (AWK7725)

(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)

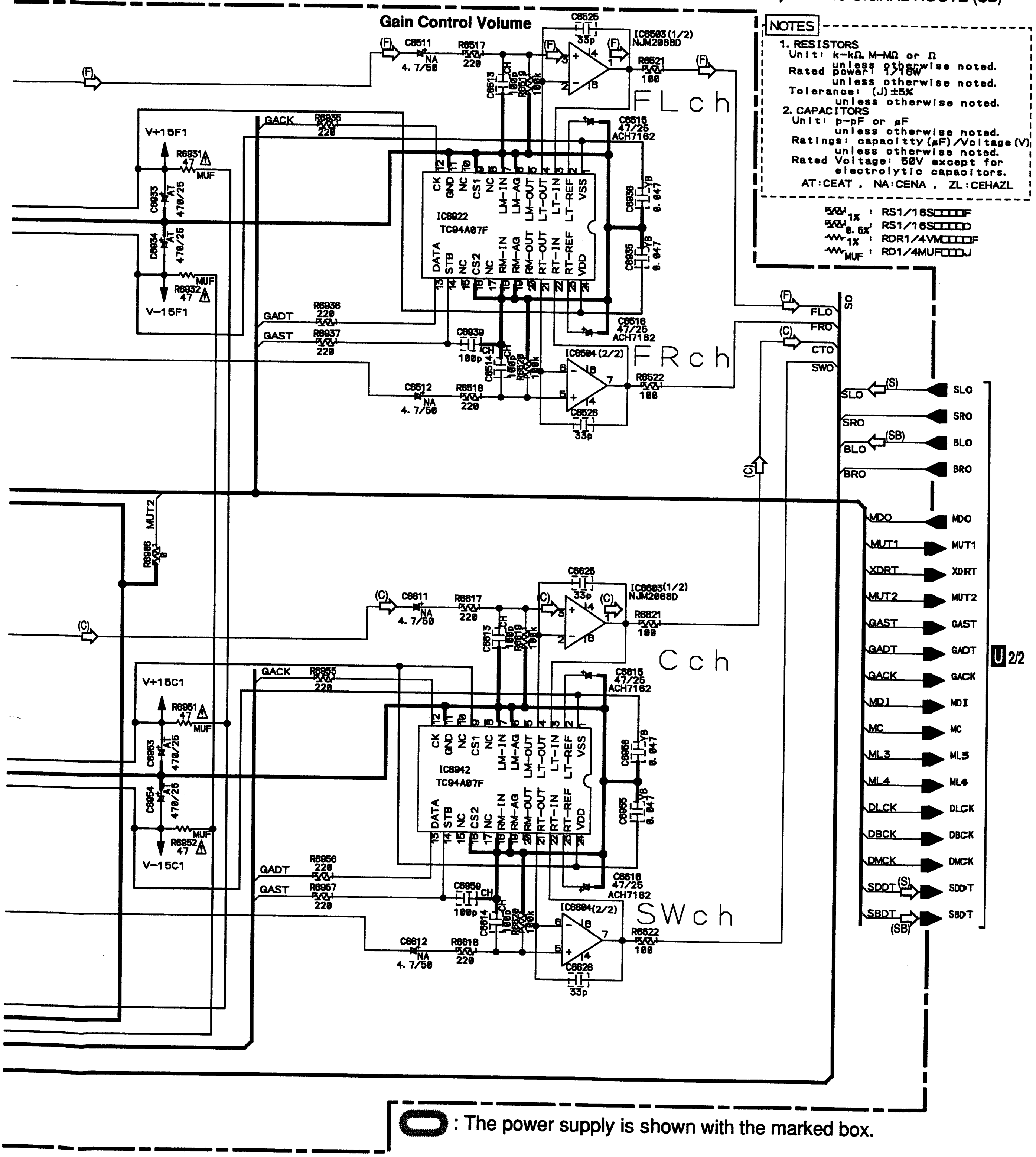

Gain Control Volume
VCE1045
C6329 100p
R6301 2.55k (1%)
ACN7105
IC6303 NJM5534DD
R6305 1.5k
R6307 1.8k
R6309 3.3k
VCE1035 C6335 470p
IC6305 (2/2)
C6339 4.7/100 GA
R6313 220
IC6305 (1/2) NJM2068D
R6317 100
SLO
C6349 33p
SO
C6351 22p
C6337 220p VCE1040
V+15S1
C6333 0.047 YB
C6331 0.047 YB
C6341 0.047 YB
C6343 0.047 YB
C6071 470/25 ACH7163
R6315 100k
C6345 100p CH
C6347 47/25 ACH7162
IC6062 TC94A07F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C6068 0.047 YB
C6067 0.047 YB
C6334 0.047 YB
C6332 0.047 YB
C6342 0.047 YB
C6344 0.047 YB
C6072 470/25 ACH7163
R6316 100k
C6346 100p CH
C6066 100p CH
C6348 47/25 ACH7162
C6352 22p
C6338 220p VCE1040
V-15S1
R6072 47 MUF
R6071 47 MUF
C6350 33p
R6306 1.5k
R6308 1.8k
R6310 3.3k
C6340 4.7/100 GA
R6314 220
R6318 100
SRO
IC6304 NJM5534DD
R6302 2.55k (1%)
ACN7105
VCE1035 C6336 470p
R6075 220
R6076 220
R6078 220
R6077 220
IC6306 (2/2)
IC6306 (1/2) NJM2068D
V+15
C6330 100p VCE1045
GNDA
GACK
GADT
GAST
SLO
SRO
BLO
BRO
U 1/2
J6003 ADB7016
VCE1045
C6429 100p
R6401 2.55k (1%)
ACN7105
IC6403 NJM5534DD
IC6405 (1/2) NJM2068D
V-15
R6405 1.5k
R6407 1.8k
R6409 3.3k
VCE1035 C6435 470p
C6439 4.7/100 GA
R6413 220
R6087 220
R6088 220
R6086 220
IC6405 (2/2)
R6417 100
BLO
C6449 33p
C6451 22p
C6437 220p VCE1040
V+15B1
R6081 47 MUF
R6082 47 MUF
C6447 47/25 ACH7162
C6433 0.047 YB
C6431 0.047 YB
C6441 0.047 YB
C6443 0.047 YB
C6081 470/25 ACH7163
R6415 100k
C6445 100p CH
IC6082 TC94A07F
C6086 0.047 YB
C6087 0.047 YB
C6434 0.047 YB
C6432 0.047 YB
C6442 0.047 YB
C6444 0.047 YB
C6082 470/25 ACH7163
R6416 100k
C6446 100p CH
C6448 47/25 ACH7162
C6086 100p CH
V-15B1
C6452 22p
C6450 33p
R6406 1.5k
R6408 1.8k
R6410 3.3k
C6438 220p VCE1040
C6440 4.7/100 GA
R6414 220
R6418 100
BRO
IC6404 NJM5534DD
R6402 2.55k (1%)
ACN7105
VCE1035 C6436 470p
IC6406 (1/2) NJM2068D
IC6406 (2/2)
C6430 100p VCE1045

3.26 DAC8 ASSY (1/2) (VSX-47TX ONLY)


A
B
C
D
V+5DD
IC6901
PQ3DZ13
VIN VOUT
ON
OFF GAD
V+3DD
V+3DF
V+5AF
V+5D
C6901
C6902
L6921
GTL1013
C6921
C6920
L6902
ATL7002
L6923
ATL7002
L6922
ATL7002
C6929
C6930
R6920
220
XDRT
DLCK
FTDT
DBCK
DMCK
220x3
R6926
R6933
R6929
R6930 100
C6922 470p
MDO
MDI
MC
ML1
R6921
R6922
R6923
R6924
220 x4
RST
ZEROR
ZEROL
LRCK
DATA
BCK
SCKI
DGND
VDD
SCKO
MDO
MDI
MC
CS
VCC3
AGND2
IOUTR-
IOUTR+
VCC2
VCC1
VCOM3
IREF
VCOM2
VCOM1
AGND1
IOUTL+
IOUTL-
MUTE
PCM1738E-1
IC6921
C6927
R6927 16k 0.5%
C6928
C6931
C6932
D/A Converter
GNDP
R6928
C6925
R6904
MUT1
J6902
ADB7015
CN6901
14R-FJ
VDD5
GNDP
XMUTE
XDFRST
192K/MDO
MDI
MC
ML4
ML3
ML2
ML1
GAIN ST
GAIN DT
GAIN CK
S 1/5 CN706
GNDP
XDRT
MDO
MDI
MC
ML4
ML3
ML2
ML1
GAST
GADT
GACK
DLCK
LRCK
GNDP
BCK
GNDP
MCK
GNDP
F DATA
GNDP
CW DATA
GNDP
S DATA
GNDP
SB DATA
GNDP
CN6902
14R-FJ
S 1/5 CN707
DBCK
DMCK
FTDT
CWDT
SDDT
SBDT
(F)
(C)
(S)
(SB)
C6503
VCE1046
4700p
R6503
6201%
IC6501(2/2)
IC6501(1/2)
NJM2068D
R6501
6201%
C6501
4700p
VCE1046
R6502
C6502
IC6502(2/2)
IC6502(1/2)
NJM2068D
R6504
620 1%
C6504
VCE1046 4700p
R6507
R6505
R6506
R6508
620 1%
R6515
R6513
R6511
R6512
R6514
R6516
620 1%
C6509
820p CH
C6510
820p CH
C6505
C6506
6800p
IC6503 (2/2)
IC6504(1/2)
NJM2068D
R6523
R6524
100
C6519
C6517
C6520
C6518
0.047
R6509
R6510
620 1%
C6507
C6508
820p
C6523
C6521
C6524
C6522
0.047
R6525
R6526
100
V+3DD
V+3DC
V+5AC
L6941
GTL1013
C6941
C6940
L6943
L6942
ATL7002
R6940
220
R6948
R6953
R6949
R6950 100
C6942 470p
MDO
MDI
MC
ML2
R6941
R6942
R6943
R6944
220 x4
IC6941
PCM1738E-1
C6947
R6947 16k 0.5%
C6948
C6949
C6950
C6951
C6952
C6944
0.1/16
C6945
R6946
D/A Converter
GNDP
MUT1
MT
C6603
VCE1046
4700p
R6603
620 1%
J6901
ADB7014
IC6601 (2/2)
IC6601(1/2)
NJM2068D
R6601
620 1%
C6601
4700p
VCE1046
C6602
VCE1046
R6602
IC6602(2/2)
IC6602(1/2)
NJM2068D
R6604
620 1%
C6604
VCE1046 4700p
R6607
R6605
R6606
R6608
R6615
R6613
R6611
R6612
R6614
R6616
C6609
C6610
820p CH
C6605
C6606
6800p
IC6603 (2/2)
IC6604 (1/2)
NJM2068D
R6623
R6624
100
C6619
C6617
C6620
C6618
R6609
R6610
C6607
C6608
C6623
C6621
C6624
C6622
R6625
R6626
V+15
V-15
GNDA
BRO
BLO
SRO
SLO
SWO
CTO
FRO
FLO
CN6904
KP200TA17L
GNDA
SBRO
GNDA
SBLO
GNDA
SRO
GNDA
SLO
GNDA
SWO
GNDA
CTO
GNDA
FRO
GNDA
FLO
GNDA
R CN5813
V+15
GNDA
V-15
NC (V-5D)
GNDD
GNDD
V+5D
GNDD1
CN6903
KP200TA7L
R CN5812
NC
U 1/2

U 1/2 DAC 8 ASSY (AWK7726)

(F) ⇨ : AUDIO SIGNAL ROUTE (F)
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
(S) ⇨ : AUDIO SIGNAL ROUTE (S)
(SB) ⇨ : AUDIO SIGNAL ROUTE (SB)


Gain Control Volume
FLch
FRch
Cch
SWch
IC6503(1/2) NJM2068D
IC6504(2/2)
IC6603(1/2) NJM2068D
IC6604(2/2)
IC6922 TC94A07F
IC6942 TC94A07F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C6511 4.7/50 NA
R6517 220
C6525 33p
R6521 100
C6515 47/25 ACH7162
C6516 47/25 ACH7162
C6936 0.047 YB
C6935 0.047 YB
C6939 100p CH
C6512 4.7/50 NA
R6518 220
C6526 33p
R6522 100
C6611 4.7/50 NA
R6617 220
C6625 33p
R6621 100
C6615 47/25 ACH7162
C6616 47/25 ACH7162
C6956 0.047 YB
C6955 0.047 YB
C6959 100p CH
C6612 4.7/50 NA
R6618 220
C6626 33p
R6622 100
GACK R6935 220
GADT R6936 220
GAST R6937 220
GACK R6955 220
GADT R6956 220
GAST R6957 220
V+15F1
R6931 47 MUF
C6933 470/25 AT
C6934 470/25 AT
R6932 47 MUF
V-15F1
V+15C1
R6951 47 MUF
C6953 470/25 AT
C6954 470/25 AT
R6952 47 MUF
V-15C1
MUT2
R6908
SO
FLO
FRO
CTO
SWO
SLO
SRO
BLO
BRO
MDO
MUT1
XDRT
MUT2
GAST
GADT
GACK
MDI
MC
ML3
ML4
DLCK
DBCK
DMCK
SDDT
SBDT
U 2/2

NOTES

1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω
unless otherwise noted.
Rated power: 1/16W
unless otherwise noted.
Tolerance: (J) ±5%
unless otherwise noted.

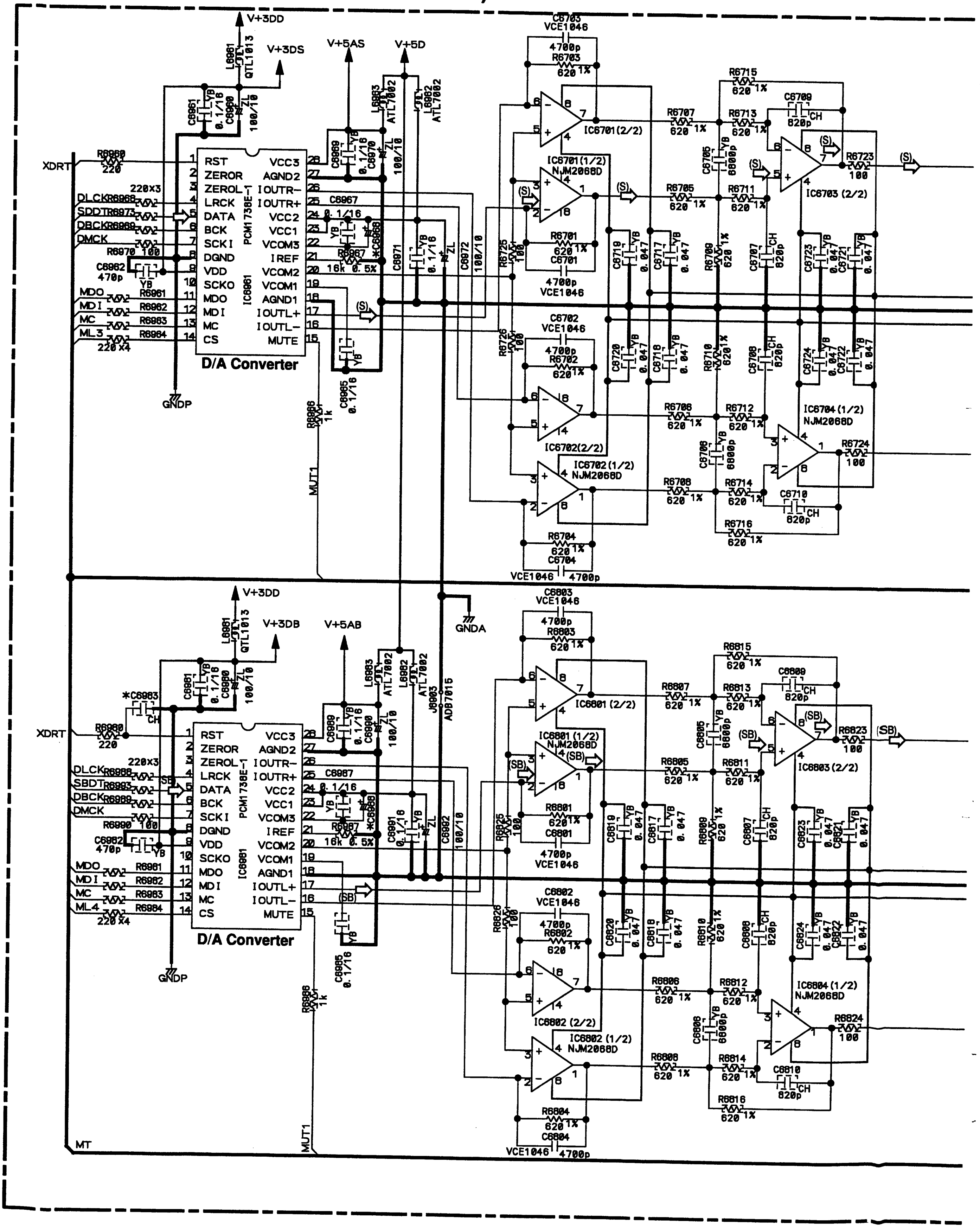
2. CAPACITORS
Unit: p-pF or µF
unless otherwise noted.
Ratings: capacitty (µF) / Voltage (V)
unless otherwise noted.
Rated Voltage: 50V except for
electrolytic capacitors.

AT : CEAT , NA : CENA , ZL : CEHAZL

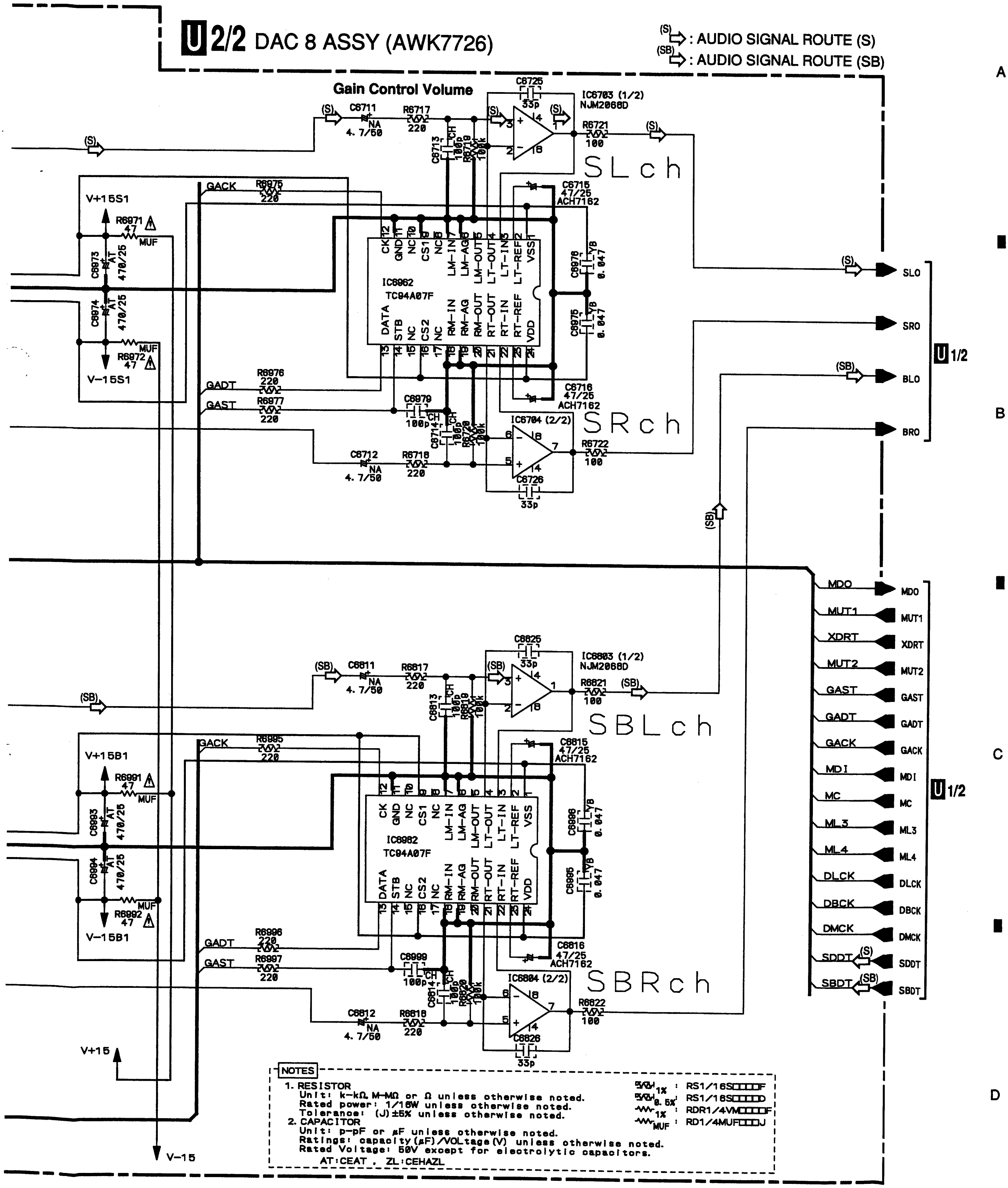
1%	RS1/16S□□□□F
0.5%	RS1/16S□□□□D
1%	RDR1/4VM□□□□F
MUF	RD1/4MUF□□□J

▬ : The power supply is shown with the marked box.

3.27 DAC8 ASSY (2/2) (VSX-47TX ONLY)


V+3DD
V+3DS
V+5AS
V+5D
L6961 QTL1013
C6961 0.1/16 YB
C6960 ZL 100/10
L6963 ATL7002
L6962 ATL7002
C6969 0.1/16 YB
C6970 ZL 100/10
XDRT
R6960 220
220X3
DLCK R6968
SDDT R6973
DBCK R6969
DMCK
R6970 100
C6962 470p YB
MDO R6961
MDI R6962
MC R6963
ML3 R6964
220X4
RST
ZEROR
ZEROL
LRCK
DATA
BCK
SCKI
DGND
VDD
SCKO
MDO
MDI
MC
CS
VCC3
AGND2
IOUTR-
IOUTR+
VCC2
VCC1
VCOM3
IREF
VCOM2
VCOM1
AGND1
IOUTL+
IOUTL-
MUTE
PCM1738E-1
IC6961
D/A Converter
C6967 0.1/16
*C6968
R6967 16k 0.5%
C6971 0.1/16 YB
C6972 100/10 ZL
C6965 0.1/16 YB
GNDP
R6966 1k
MUT1
(S)
C6703 VCE1046 4700p
R6703 620 1%
IC6701(2/2)
IC6701(1/2) NJM2068D
R6701 620 1%
C6701 4700p VCE1046
R6725 100
R6726 100
C6702 VCE1046 4700p
R6702 620 1%
IC6702(2/2)
IC6702(1/2) NJM2068D
R6704 620 1%
C6704 VCE1046 4700p
C6719 0.047 YB
C6717 0.047 YB
C6720 0.047 YB
C6718 0.047 YB
R6707 620 1%
R6705 620 1%
R6706 620 1%
R6708 620 1%
R6715 620 1%
R6713 620 1%
R6711 620 1%
R6709 620 1%
R6710 620 1%
R6712 620 1%
R6714 620 1%
R6716 620 1%
C6705 6800p YB
C6706 6800p YB
C6709 820p CH
C6707 820p CH
C6708 820p CH
C6710 820p CH
IC6703 (2/2)
IC6704 (1/2) NJM2068D
R6723 100
R6724 100
C6723 0.047 YB
C6721 0.047 YB
C6724 0.047 YB
C6722 0.047 YB
(S)
GNDA
V+3DD
V+3DB
V+5AB
L6981 QTL1013
C6981 0.1/16 YB
C6980 ZL 100/10
*C6983 CH
L6983 ATL7002
L6982 ATL7002
J6903 ADB7015
C6989 0.1/16 YB
C6990 ZL 100/10
XDRT
R6980 220
220X3
DLCK R6988
SBDT R6993
DBCK R6989
DMCK
R6990 100
C6982 470p YB
MDO R6981
MDI R6982
MC R6983
ML4 R6984
220X4
PCM1738E-1
IC6981
D/A Converter
C6987 0.1/16
*C6988
R6987 16k 0.5%
C6991 0.1/16 YB
C6992 100/10 ZL
C6985 0.1/16 YB
GNDP
R6986 1k
MUT1
MT
(SB)
C6803 VCE1046 4700p
R6803 620 1%
IC6801 (2/2)
IC6801 (1/2) NJM2068D
R6801 620 1%
C6801 4700p VCE1046
R6825 100
R6826 100
C6802 VCE1046 4700p
R6802 620 1%
IC6802 (2/2)
IC6802 (1/2) NJM2068D
R6804 620 1%
C6804 VCE1046 4700p
C6819 0.047 YB
C6817 0.047 YB
C6820 0.047 YB
C6818 0.047 YB
R6807 620 1%
R6805 620 1%
R6806 620 1%
R6808 620 1%
R6815 620 1%
R6813 620 1%
R6811 620 1%
R6809 620 1%
R6810 620 1%
R6812 620 1%
R6814 620 1%
R6816 620 1%
C6805 6800p YB
C6806 6800p YB
C6809 820p CH
C6807 820p CH
C6808 820p CH
C6810 820p CH
IC6803 (2/2)
IC6804 (1/2) NJM2068D
R6823 100
R6824 100
C6823 0.047 YB
C6821 0.047 YB
C6824 0.047 YB
C6822 0.047 YB
(SB)

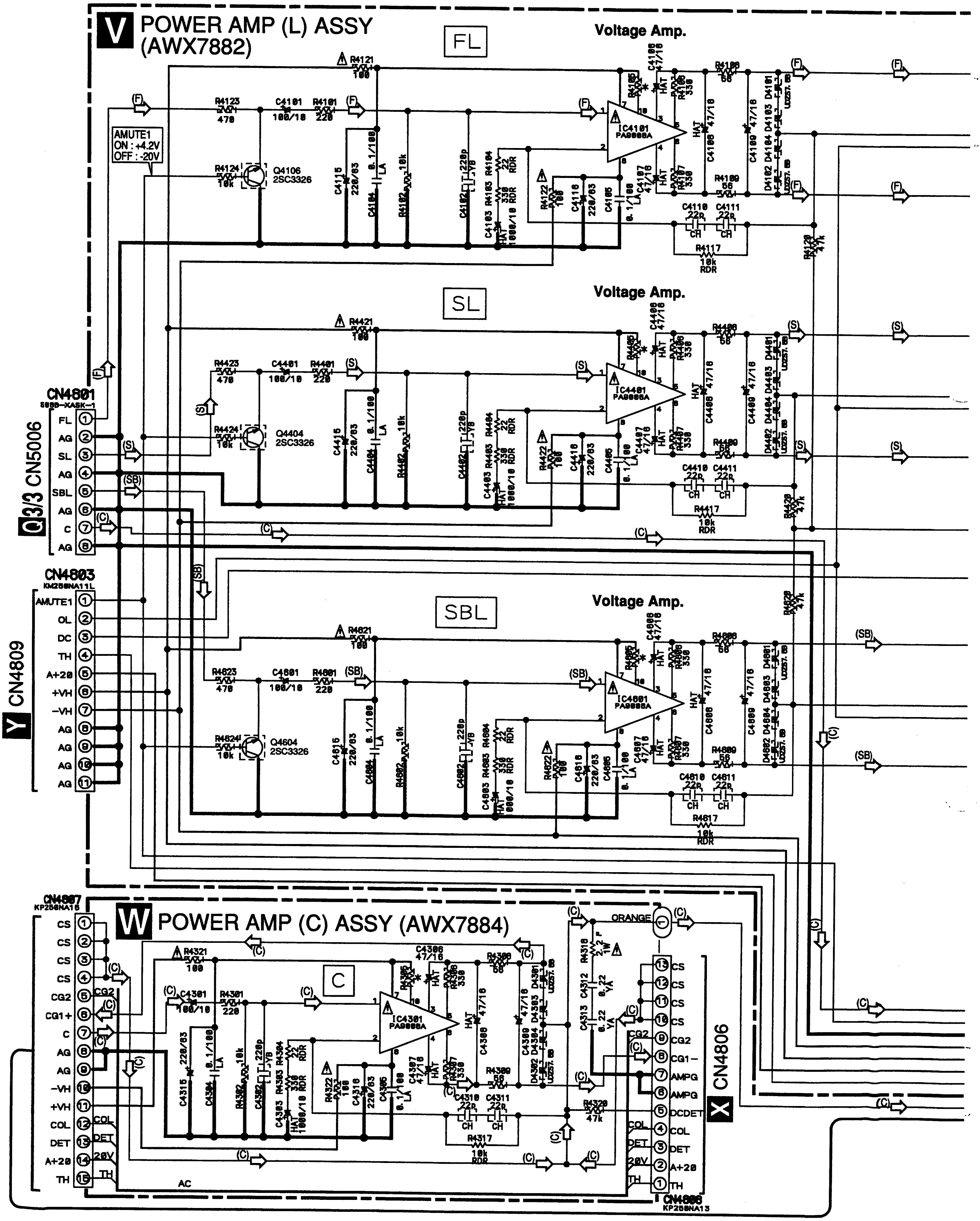
U 2/2 DAC 8 ASSY (AWK7726)

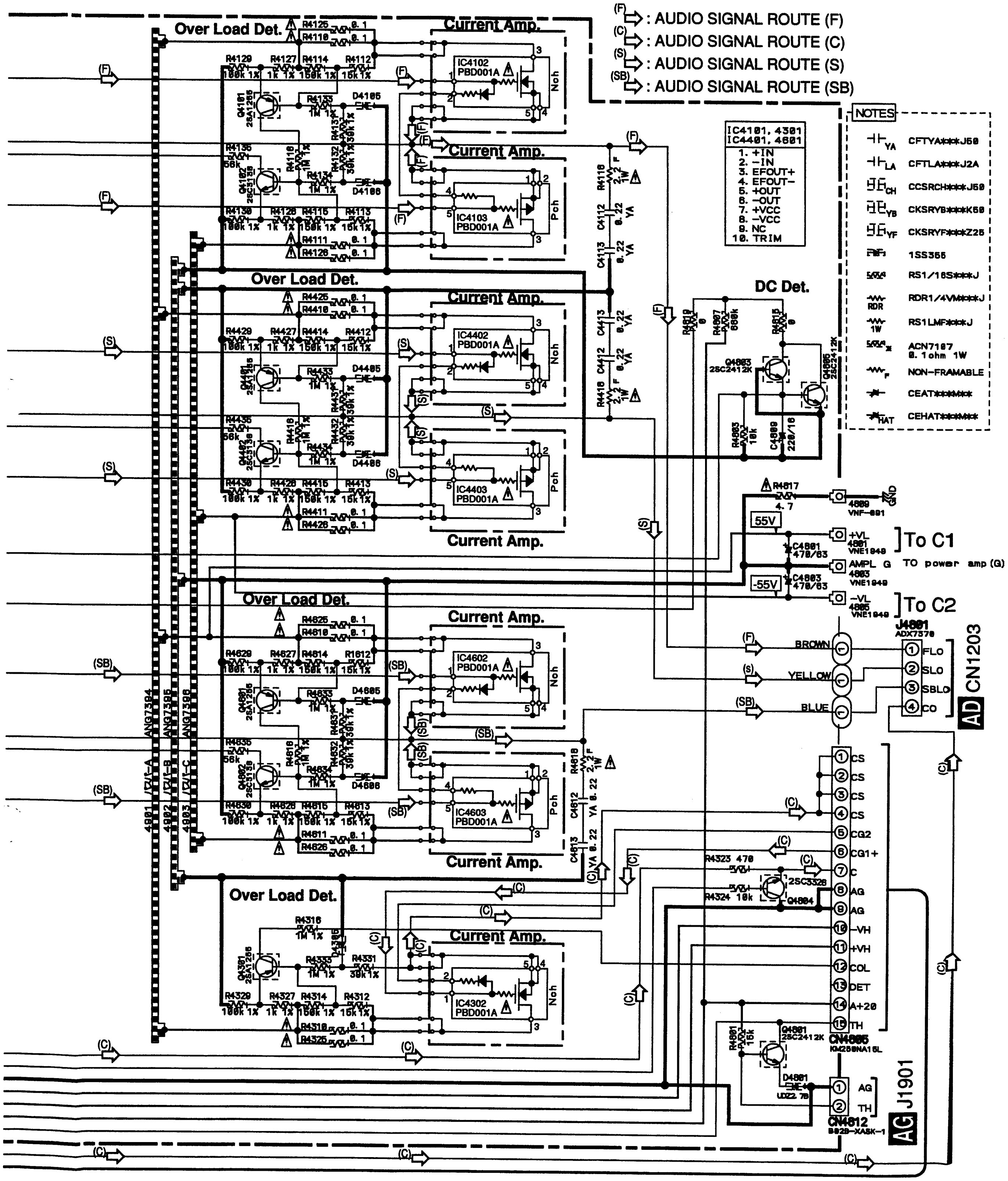

(S): AUDIO SIGNAL ROUTE (S)
(SB): AUDIO SIGNAL ROUTE (SB)
A
B
C
D
Gain Control Volume
C6711 NA 4.7/50
R6717 220
C6713 CH 100p
R6719 100k
C6725 33p
IC6703 (1/2) NJM2068D
R6721 100
SLch
GACK
R6975 220
V+15S1
R6971 47 MUF
C6973 AT 470/25
C6974 AT 470/25
R6972 47 MUF
V-15S1
C6715 47/25 ACH7162
IC6962 TC94A07F
CK GND NC CS1 NC LM-IN LM-AG LM-OUT LT-OUT LT-IN LT-REF VSS
DATA STB NC CS2 NC RM-IN RM-AG RM-OUT RT-OUT RT-IN RT-REF VDD
C6976 YB 0.047
C6975 YB 0.047
GADT
R6976 220
GAST
R6977 220
C6979 CH 100p
C6714 CH 100p
R6720 100k
C6716 47/25 ACH7162
IC6704 (2/2)
SRch
C6712 NA 4.7/50
R6718 220
C6726 33p
R6722 100
SLO
SRO
BLO
BRO
U 1/2
MDO
MUT1
XDRT
MUT2
GAST
GADT
GACK
MDI
MC
ML3
ML4
DLCK
DBCK
DMCK
SDDT
SBDT
C6811 NA 4.7/50
R6817 220
C6813 CH 100p
R6819 100k
C6825 33p
IC6803 (1/2) NJM2068D
R6821 100
SBLch
GACK
R6995 220
V+15B1
R6991 47 MUF
C6993 AT 470/25
C6994 AT 470/25
R6992 47 MUF
V-15B1
C6815 47/25 ACH7162
IC6982 TC94A07F
C6996 YB 0.047
C6995 YB 0.047
GADT
R6996 220
GAST
R6997 220
C6999 CH 100p
C6814 CH 100p
R6820 100k
C6816 47/25 ACH7162
IC6804 (2/2)
SBRch
C6812 NA 4.7/50
R6818 220
C6826 33p
R6822 100
V+15
V-15
1% : RS1/16S□□□□F
0.5% : RS1/16S□□□□D
1% : RDR1/4VM□□□□F
MUF : RD1/4MUF□□□J

NOTES

1. RESISTOR
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/16W unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITOR
   Unit: p-pF or µF unless otherwise noted.
   Ratings: capacity(µF)/VOLtage(V) unless otherwise noted.
   Rated Voltage: 50V except for electrolytic capacitors.
   AT:CEAT , ZL:CEHAZL

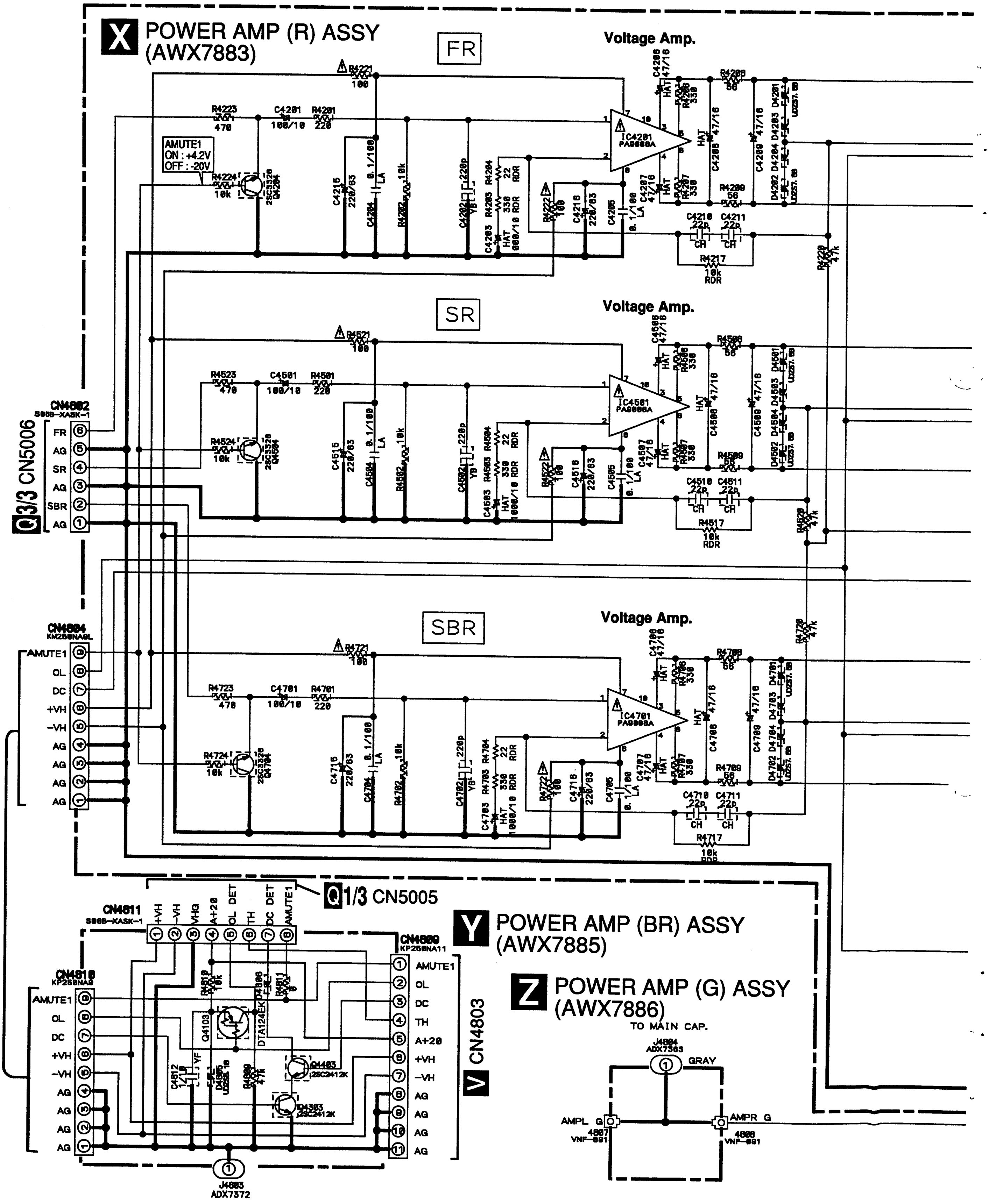
3.28 POWER AMP (L) and POWER AMP (C) ASSYS

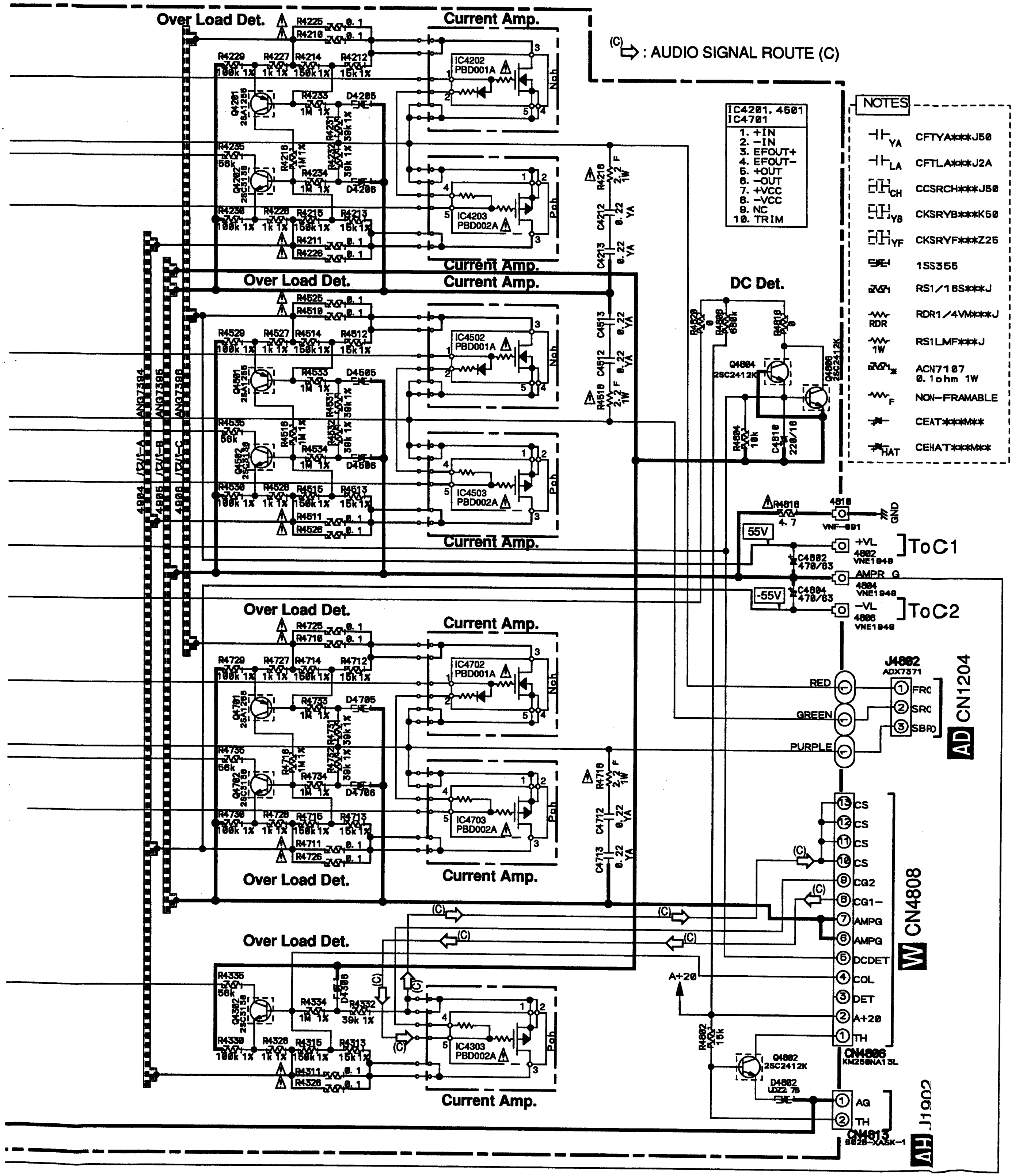

V
POWER AMP (L) ASSY
(AWX7882)
FL
SL
SBL
Voltage Amp.
Voltage Amp.
Voltage Amp.
AMUTE1
ON : +4.2V
OFF : -20V
R4121 100
R4123 470
C4101 100/10
R4101 220
R4124 10k
Q4106 2SC3326
IC4101 PA9000A
R4117 10k RDR
R4421 100
R4423 470
C4401 100/10
R4401 220
R4424 10k
Q4404 2SC3326
IC4401 PA9000A
R4417 10k RDR
R4621 100
R4623 470
C4601 100/10
R4601 220
R4624 10k
Q4604 2SC3326
IC4601 PA9000A
R4617 10k RDR
CN4801
5000-XASK-1
FL
AG
SL
AG
SBL
AG
C
AG
Q3/3 CN5006
CN4803
KM200NA11L
AMUTE1
OL
DC
TH
A+20
+VH
-VH
AG
AG
AG
AG
Y CN4809
W
POWER AMP (C) ASSY (AWX7884)
C
CN4807
KP200NA15
CS
CS
CS
CS
CG2
CG1+
C
AG
AG
-VH
+VH
COL
DET
A+20
TH
R4321 100
C4301 100/10
R4301 220
IC4301 PA9000A
R4317 10k RDR
R4320 47k
ORANGE
R4318 2.2 2W
C4312 0.22 YA
C4313 0.22 YA
CS
CS
CS
CS
CG2
CG1-
AMPG
AMPG
DCDET
COL
DET
A+20
TH
X CN4806
CN4806
KP200NA13
AC


(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
NOTES
YA CFTYA✱✱✱J50
LA CFTLA✱✱✱J2A
CH CCSRCH✱✱✱J50
YB CKSRYB✱✱✱K50
YF CKSRYF✱✱✱Z25
1SS355
RS1/16S✱✱✱J
RDR RDR1/4VM✱✱✱J
1W RS1LMF✱✱✱J
ACN7107 0.1ohm 1W
F NON-FRAMABLE
CEAT✱✱✱M✱✱
HAT CEHAT✱✱✱M✱✱
IC4101, 4301
IC4401, 4601
1. +IN
2. -IN
3. EFOUT+
4. EFOUT-
5. +OUT
6. -OUT
7. +VCC
8. -VCC
9. NC
10. TRIM
Over Load Det.
Current Amp.
IC4102 PBD001A
IC4103 PBD001A
IC4402 PBD001A
IC4403 PBD001A
IC4602 PBD001A
IC4603 PBD001A
IC4302 PBD001A
Nch
Pch
Q4101 2SA1255
Q4102 2SC3138
Q4401 2SA1255
Q4402 2SC3138
Q4601 2SA1255
Q4602 2SC3138
Q4301 2SA1255
D4105
D4106
D4405
D4406
D4605
D4606
R4129 100k 1%
R4127 1k 1%
R4114 150k 1%
R4112 15k 1%
R4125 0.1
R4110 0.1
R4111 0.1
R4126 0.1
R4133 1M 1%
R4134 1M 1%
R4136 56k
R4131 30k 1%
R4132 30k 1%
R4130 100k 1%
R4128 1k 1%
R4115 150k 1%
R4113 15k 1%
R4118 2.2 F 1W
C4112 0.22 YA
C4113 0.22 YA
C4413 0.22 YA
C4412 0.22 YA
R4418 2.2 F 1W
R4618 2.2 F 1W
C4612 YA 0.22
C4613 YA 0.22
R4316 1M 1%
R4335 1M 1%
R4331 30k 1%
R4329 100k 1%
R4327 1k 1%
R4314 150k 1%
R4312 15k 1%
R4318 0.1
R4325 0.1
DC Det.
R4819 0
R4807 680k
R4815 0
Q4803 2SC2412K
Q4805 2SC2412K
R4803 10k
C4809 220/10
R4817 4.7
4809 VNF-001
GND
55V
-55V
C4801 470/63
C4803 470/63
+VL 4801 VNE1049
AMPL G 4803 VNE1049
-VL 4805 VNE1049
To C1
TO power amp (G)
To C2
J4801 ADX7370
BROWN
YELLOW
BLUE
① FLO
② SLO
③ SBLO
④ CO
AD CN1203
① CS
② CS
③ CS
④ CS
⑤ CG2
⑥ CG1+
⑦ C
⑧ AG
⑨ AG
⑩ -VH
⑪ +VH
⑫ COL
⑬ DET
⑭ A+20
⑮ TH
R4323 470
R4324 10k
2SC3326 Q4804
CN4805 KM250NA15L
R4801 15k
Q4801 2SC2412K
D4801 UDZ2 7B
① AG
② TH
CN4812 B02B-XASK-1
AG J1901
4901 /D/A-A ANG7384
4902 /D/A-B ANG7385
4903 /D/A-C ANG7386
A
B
C
D

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

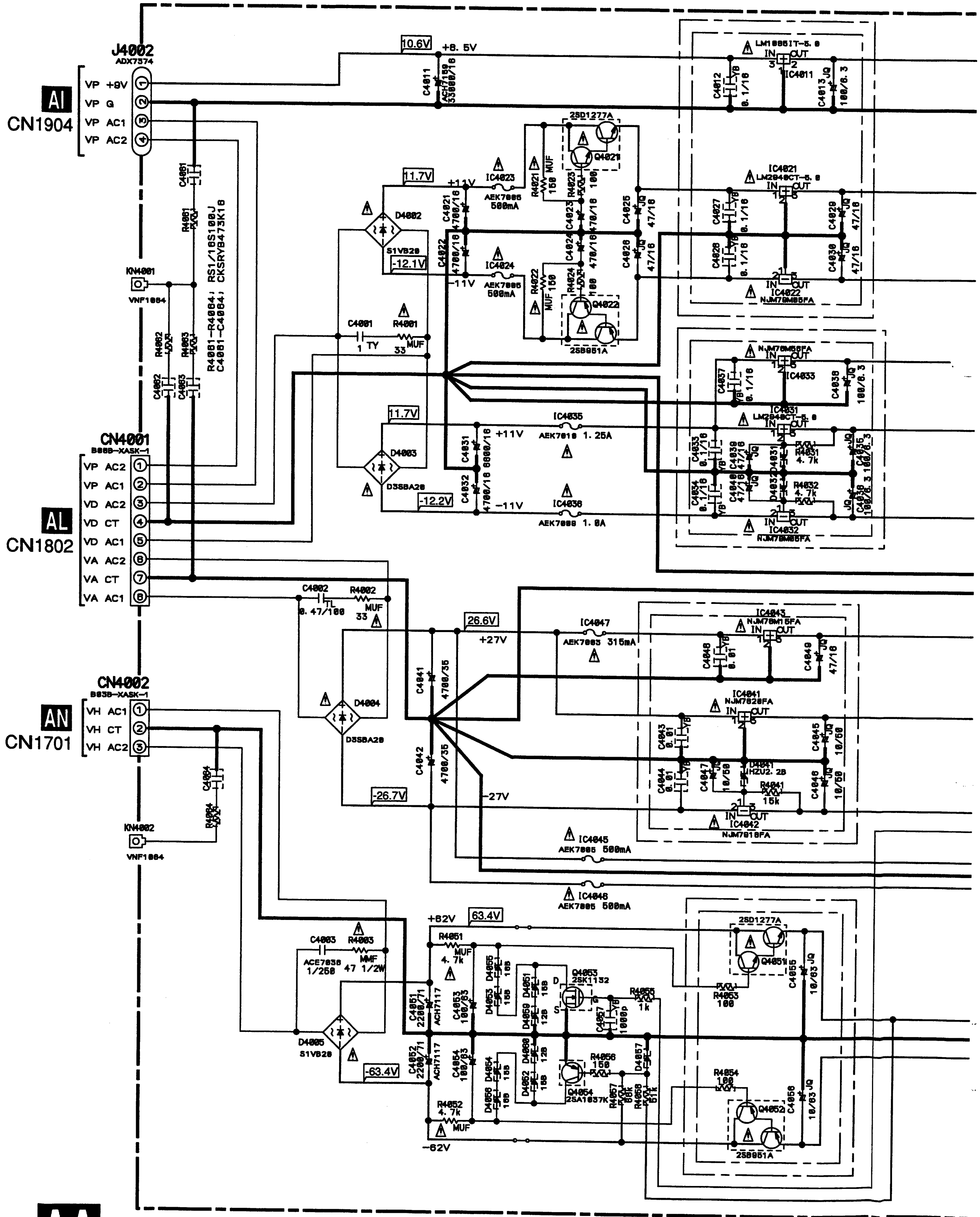
3.29 POWER AMP (R), POWER AMP (BR) and POWER AMP (G) ASSYS


X POWER AMP (R) ASSY
(AWX7883)
FR
SR
SBR
Voltage Amp.
IC4201 PA9008A
IC4501 PA9008A
IC4701 PA9008A
AMUTE1
ON : +4.2V
OFF : -20V
R4221 100
R4223 470
C4201 100/10
R4201 220
R4224 10k
Q4204 2SC3326
C4215 220/63
C4204 0.1/100 LA
R4202 10k
C4202 220p YB
R4204 22 RDR
R4203 330 RDR
C4203 HAT 1000/10
R4222 100
C4216 220/63
C4205 0.1/100 LA
C4206 47/16 HAT
C4207 47/16 HAT
R4206 330
R4207 330
R4208 56
R4209 56
C4208 47/16 HAT
C4209 47/16
D4201 D4202 D4203 D4204 UDZ5.1B
C4210 22p CH
C4211 22p CH
R4217 10k RDR
R4220 47k
R4520 47k
R4720 47k
CN4802 S08B-XASK-1
Q3/3 CN5006
FR
AG
SR
AG
SBR
AG
CN4804 KM250NA9L
AMUTE1
OL
DC
+VH
−VH
AG
Q1/3 CN5005
CN4811 S08B-XASK-1
+VH
−VH
VHG
A+20
OL DET
TH
DC DET
AMUTE1
CN4809 KP250NA11
CN4810 KP250NA9
Y POWER AMP (BR) ASSY
(AWX7885)
Z POWER AMP (G) ASSY
(AWX7886)
V CN4803
Q4103 DTA124EK
Q4403 2SC2412K
Q4303 2SC2412K
R4810 10k
D4808
R4811
C4812 1/16 YF
D4806 UDZ5.1B
R4809 47k
A+20
TH
J4803 ADX7372
TO MAIN CAP.
J4804 ADX7363
GRAY
AMPL G
4807 VNF-001
AMPR G
4808 VNF-001

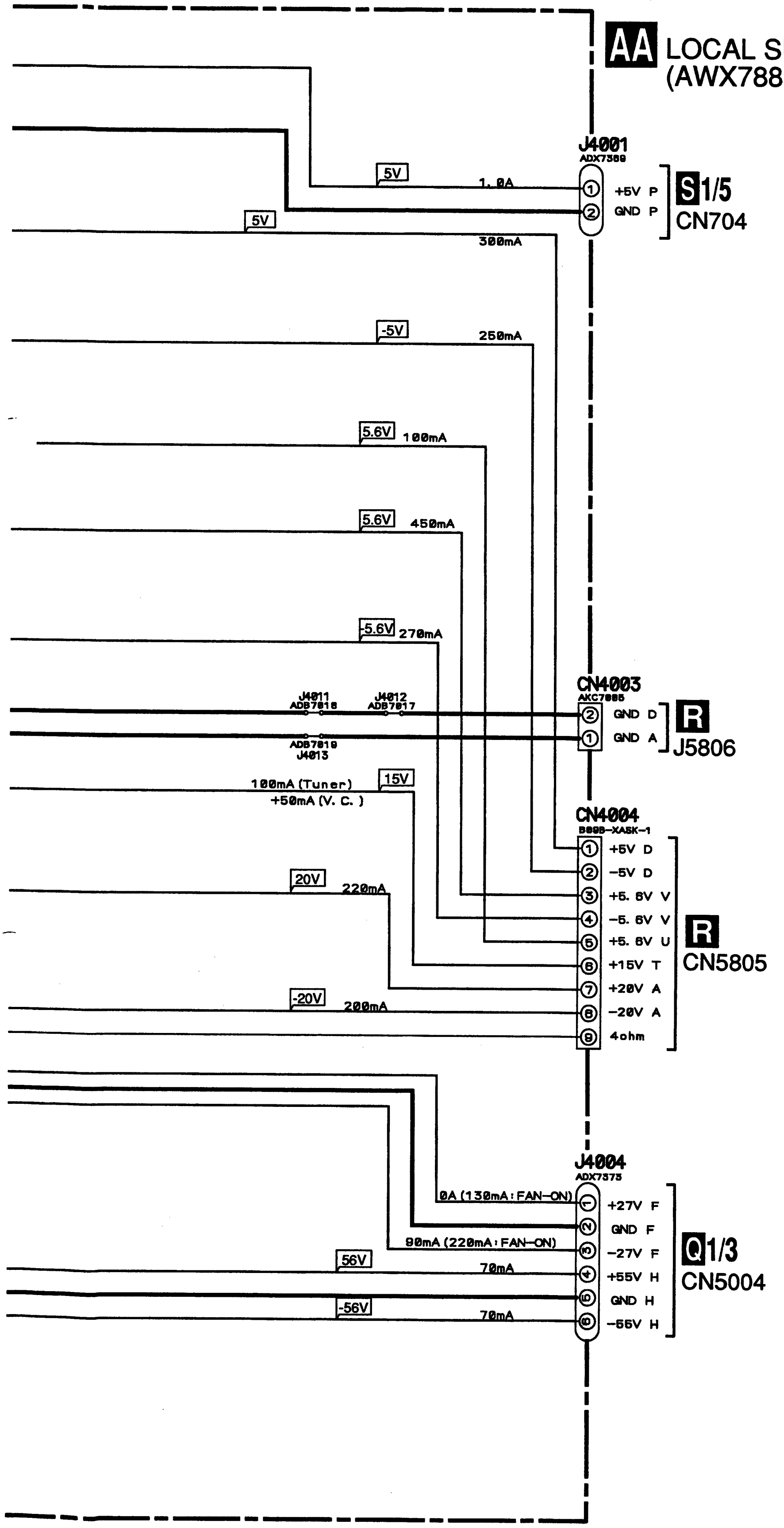

Over Load Det.
Current Amp.
(C) ⇨ : AUDIO SIGNAL ROUTE (C)
IC4201, 4501
IC4701
1. +IN
2. −IN
3. EFOUT+
4. EFOUT−
5. +OUT
6. −OUT
7. +VCC
8. −VCC
9. NC
10. TRIM
NOTES
YA CFTYA***J50
LA CFTLA***J2A
CH CCSRCH***J50
YB CKSRYB***K50
YF CKSRYF***Z25
1SS355
RS1/16S***J
RDR RDR1/4VM***J
1W RS1LMF***J
ACN7107 0.1ohm 1W
F NON-FRAMABLE
CEAT***M**
HAT CEHAT***M**
DC Det.
IC4202 PBD001A
IC4203 PBD002A
IC4502 PBD001A
IC4503 PBD002A
IC4702 PBD001A
IC4703 PBD002A
IC4303 PBD002A
4804 ANG7384 ジャンパ-A
4805 ANG7385 ジャンパ-B
4806 ANG7386 ジャンパ-C
Q4804 2SC2412K
Q4806 2SC2412K
Q4802 2SC2412K
D4802 UDZ2.7B
55V
−55V
+VL
AMPR G
−VL
ToC1
ToC2
4810 VNF-001
GND
J4802 ADX7371
RED
GREEN
PURPLE
FR0
SR0
SBR0
AD CN1204
CS
CG2
CG1−
AMPG
DCDET
COL
DET
A+20
TH
W CN4808
CN4806 KM200NA13L
AG
TH
CN4813 9820-XASK-1
AH J1902
A
B
C
D
5
6
7
8

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

3.30 LOCAL SUPPLY ASSY


A
B
C
D
J4002
ADX7374
AI
CN1904
VP +9V ①
VP G ②
VP AC1 ③
VP AC2 ④
10.6V
+8.5V
C4011
ACH7159
33000/16
IC4011
LM1085IT-5.0
IN OUT
C4012
0.1/16
C4013
100/6.3
C4061
R4061
RS1/16S100J
R4061-R4064 ; RS1/16S100J
C4061-C4064 ; CKSRYB473K16
KN4001
VNF1064
R4062
R4063
C4062
C4063
11.7V
+11V
D4002
S1VB20
-12.1V
-11V
IC4023
AEK7005
500mA
IC4024
AEK7005
500mA
C4021
4700/16
C4022
4700/16
R4021
MUF 150
R4022
MUF 150
R4023
100
R4024
100
C4023
470/16
C4024
470/16
C4025
47/16
C4026
47/16
2SD1277A
Q4021
Q4022
2SB951A
IC4021
LM2940CT-5.0
C4027
0.1/16
C4028
0.1/16
C4029
47/16
C4030
47/16
IC4022
NJM79M05FA
C4001
1 TY
R4001
MUF 33
IC4033
NJM78M05FA
C4037
0.1/16
C4038
100/6.3
IC4031
LM2940CT-5.0
11.7V
D4003
D3SBA20
-12.2V
C4031
6800/16
C4032
4700/16
+11V
-11V
IC4035
AEK7010 1.25A
IC4036
AEK7009 1.0A
C4033
0.1/16
C4034
0.1/16
C4039
47/16
C4040
47/16
D4031
D4032
R4031
4.7k
R4032
4.7k
C4035
100/6.3
C4036
100/6.3
IC4032
NJM79M05FA
CN4001
B08B-XASK-1
AL
CN1802
VP AC2 ①
VP AC1 ②
VD AC2 ③
VD CT ④
VD AC1 ⑤
VA AC2 ⑥
VA CT ⑦
VA AC1 ⑧
C4002
0.47/100
R4002
MUF 33
26.6V
+27V
IC4047
AEK7003 315mA
IC4043
NJM78M15FA
C4048
0.01
C4049
47/16
C4041
4700/35
C4042
4700/35
D4004
D3SBA20
-26.7V
-27V
IC4041
NJM7820FA
C4043
0.01
C4044
0.01
C4045
10/50
C4046
10/50
C4047
D4041
HZU2.2B
R4041
15k
IC4042
NJM7918FA
CN4002
B03B-XASK-1
AN
CN1701
VH AC1 ①
VH CT ②
VH AC2 ③
C4064
R4064
KN4002
VNF1064
IC4045
AEK7005 500mA
IC4046
AEK7005 500mA
+62V
63.4V
C4003
ACE7036
1/250
R4003
MMF
47 1/2W
D4005
S1VB20
-63.4V
-62V
R4051
MUF
4.7k
R4052
4.7k
MUF
C4051
2200/71
ACH7117
C4052
2200/71
ACH7117
C4053
100/63
C4054
100/63
D4053
D4054
D4055
D4056
D4051
D4052
D4059
D4060
Q4053
2SK1132
C4057
1000p
R4055
1k
R4056
150
Q4054
2SA1037K
D4057
R4057
R4058
51k
2SD1277A
Q4051
R4053
100
C4055
10/63
R4054
100
C4056
10/63
Q4052
2SB951A

AA LOCAL SUPPLY ASSY
(AWX7887)

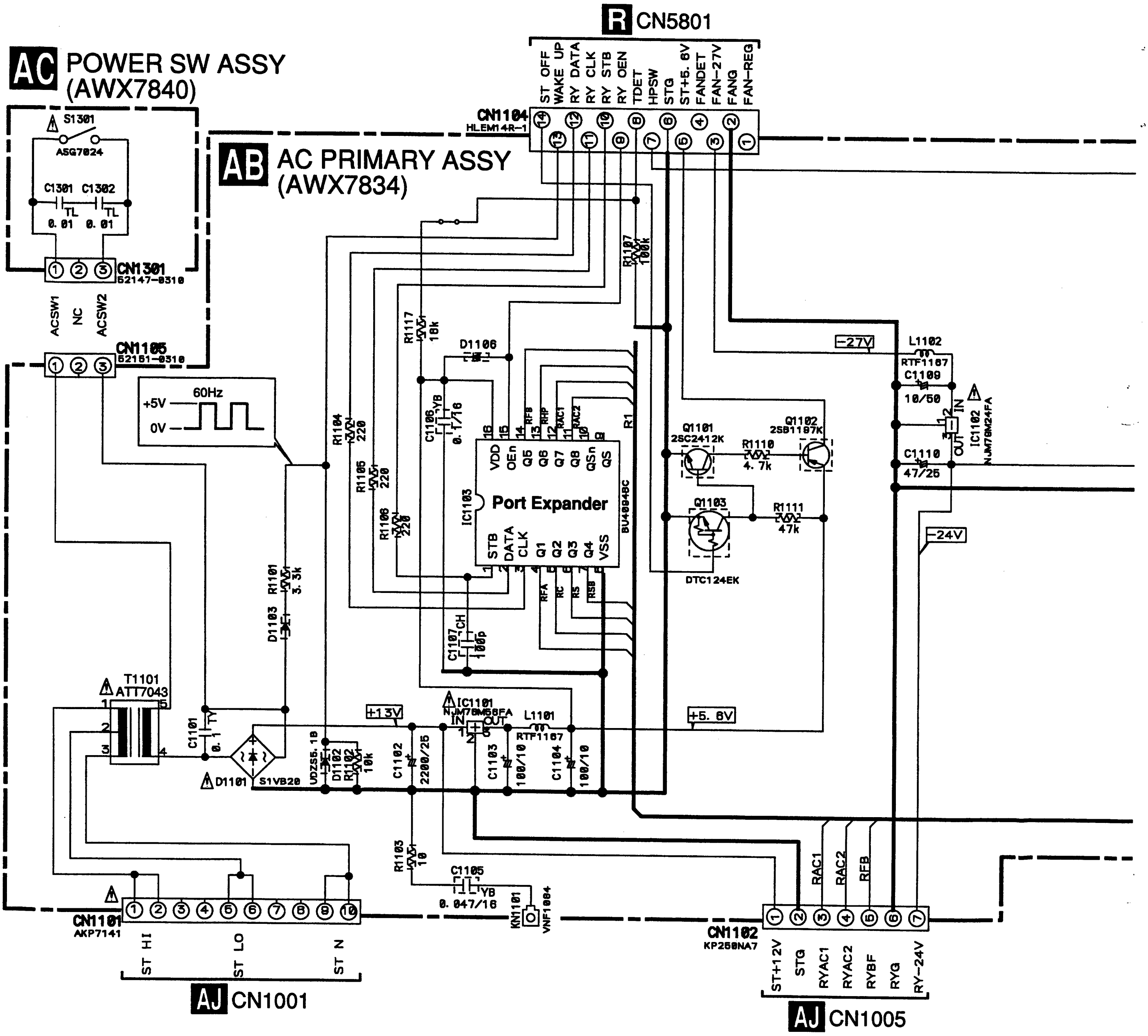

J4001
ADX7369
5V
1.0A
5V
300mA
① +5V P
② GND P
S 1/5
CN704
-5V
250mA
5.6V
100mA
5.6V
450mA
-5.6V
270mA
J4011
ADB7018
J4012
ADB7017
ADB7019
J4013
CN4003
AKC7085
② GND D
① GND A
R
J5806
100mA (Tuner)
+50mA (V. C.)
15V
CN4004
B09B-XASK-1
① +5V D
② −5V D
③ +5. 6V V
④ −5. 6V V
⑤ +5. 6V U
⑥ +15V T
⑦ +20V A
⑧ −20V A
⑨ 4ohm
R
CN5805
20V
220mA
-20V
200mA
J4004
ADX7373
0A (130mA : FAN—ON)
90mA (220mA : FAN—ON)
56V
70mA
-56V
70mA
① +27V F
② GND F
③ −27V F
④ +55V H
⑤ GND H
⑥ −56V H
Q 1/3
CN5004

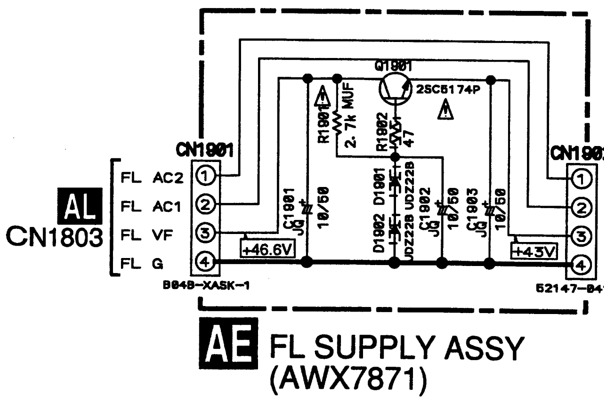
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

NOTES

TY	CFTYA***J50
TL	CFTLA***J2A
YB	CKSRYB***K**
	CEAT***M**
JQ	CEJQ***M**
	1SS355
	RS1/16S***J
MUF	RD1/8MUF***J
MMF	RD1/2MMF***J

3.31 AC PRIMARY, POWER SW, SP (A), FL SUPPLY and STANDBY ASSYS


R CN5801
AC POWER SW ASSY (AWX7840)
AB AC PRIMARY ASSY (AWX7834)
S1301 ASG7024
C1301 C1302 TL 0.01 0.01
CN1301 52147-0310
ACSW1 NC ACSW2
CN1105 52151-0310
ST OFF
WAKE UP
RY DATA
RY CLK
RY STB
RY OEN
TDET
HPSW
STG
ST+5.6V
FANDET
FAN-27V
FANG
FAN-REG
CN1104 HLEM14R-1
R1107 100k
R1117 10k
D1106
C1106 YB 0.1/16
R1104 220
R1105 220
R1106 220
IC1103 Port Expander BU4094BC
VDD OEn Q5 Q6 Q7 Q8 QSn QS
STB DATA CLK Q1 Q2 Q3 Q4 VSS
RFB RHP RAC1 RAC2 R1
RFA RC RS RSB
C1107 CH 100p
+5V 0V 60Hz
R1101 3.3k
D1103
Q1101 2SC2412K
Q1102 2SB1197K
R1110 4.7k
Q1103 DTC124EK
R1111 47k
-27V
L1102 RTF1107
C1109 10/50
IC1102 NJM78M24FA IN OUT
C1110 47/25
-24V
T1101 ATT7043
C1101 TY 0.1
D1101 S1VB20
UDZS5.1B D1102
R1102 10k
C1102 2200/25
+13V
IC1101 NJM78M05FA IN OUT
L1101 RTF1107
C1103 100/10
C1104 100/10
+5.6V
R1103 10
C1105 YB 0.047/16
KN1101 VNF1004
CN1101 AKP7141
ST HI ST LO ST N
AJ CN1001
RAC1 RAC2 RFB
CN1102 KP250NA7
ST+12V STG RYAC1 RYAC2 RYBF RYG RY-24V
AJ CN1005

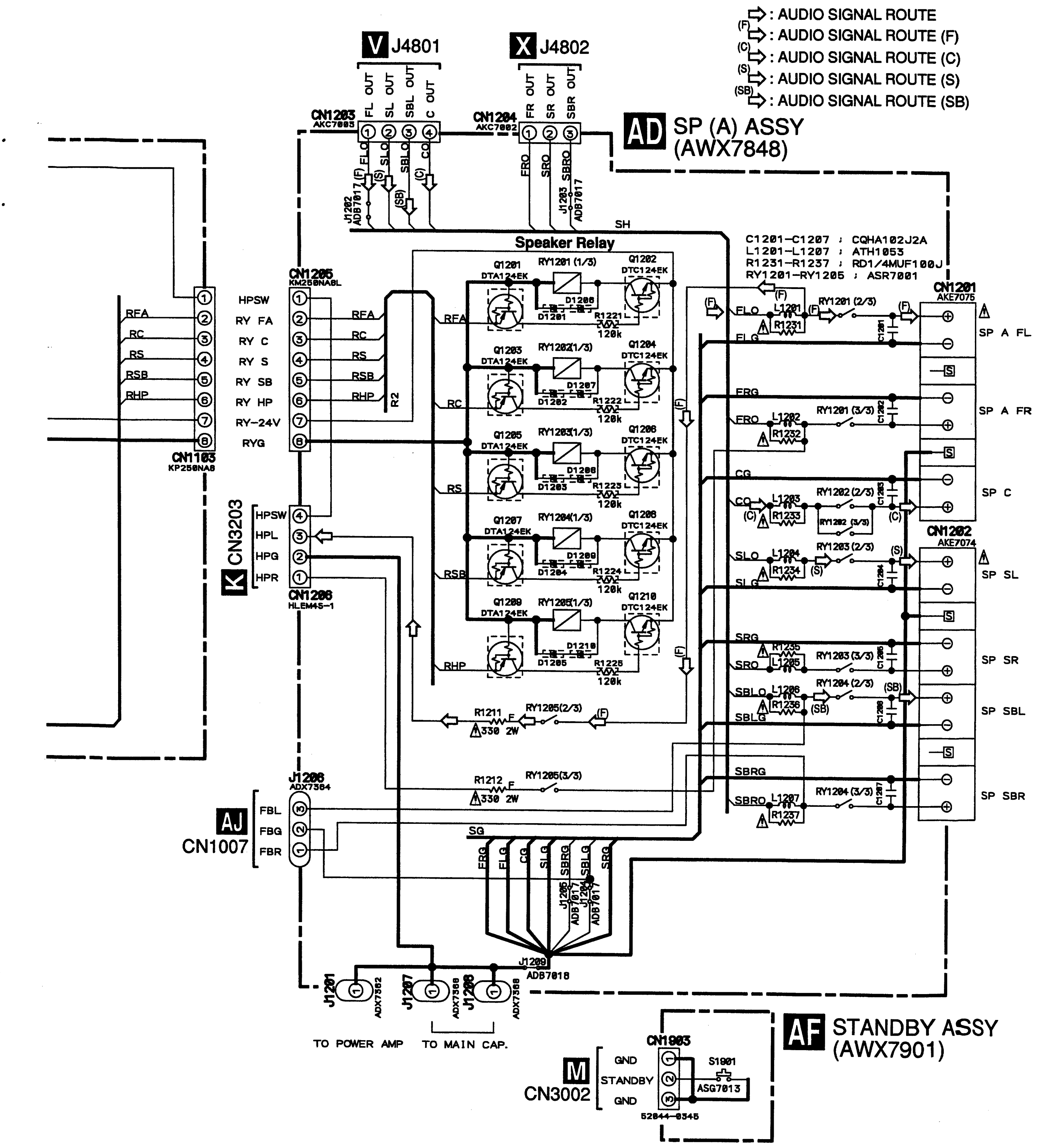

Q1901 2SC5174P
R1901 2.7k MUF
R1902 47
D1901 UDZ22B
D1902 UDZ22B
C1901 JG 10/50
C1902 JG 10/50
C1903 JG 10/50
CN1901 B04B-XASK-1
CN1902 52147-0410
AL CN1803
FL AC2
FL AC1
FL VF
FL G
+46.6V
+43V
AC2 AC1 VH UG
M 3001
AE FL SUPPLY ASSY (AWX7871)

NOTES

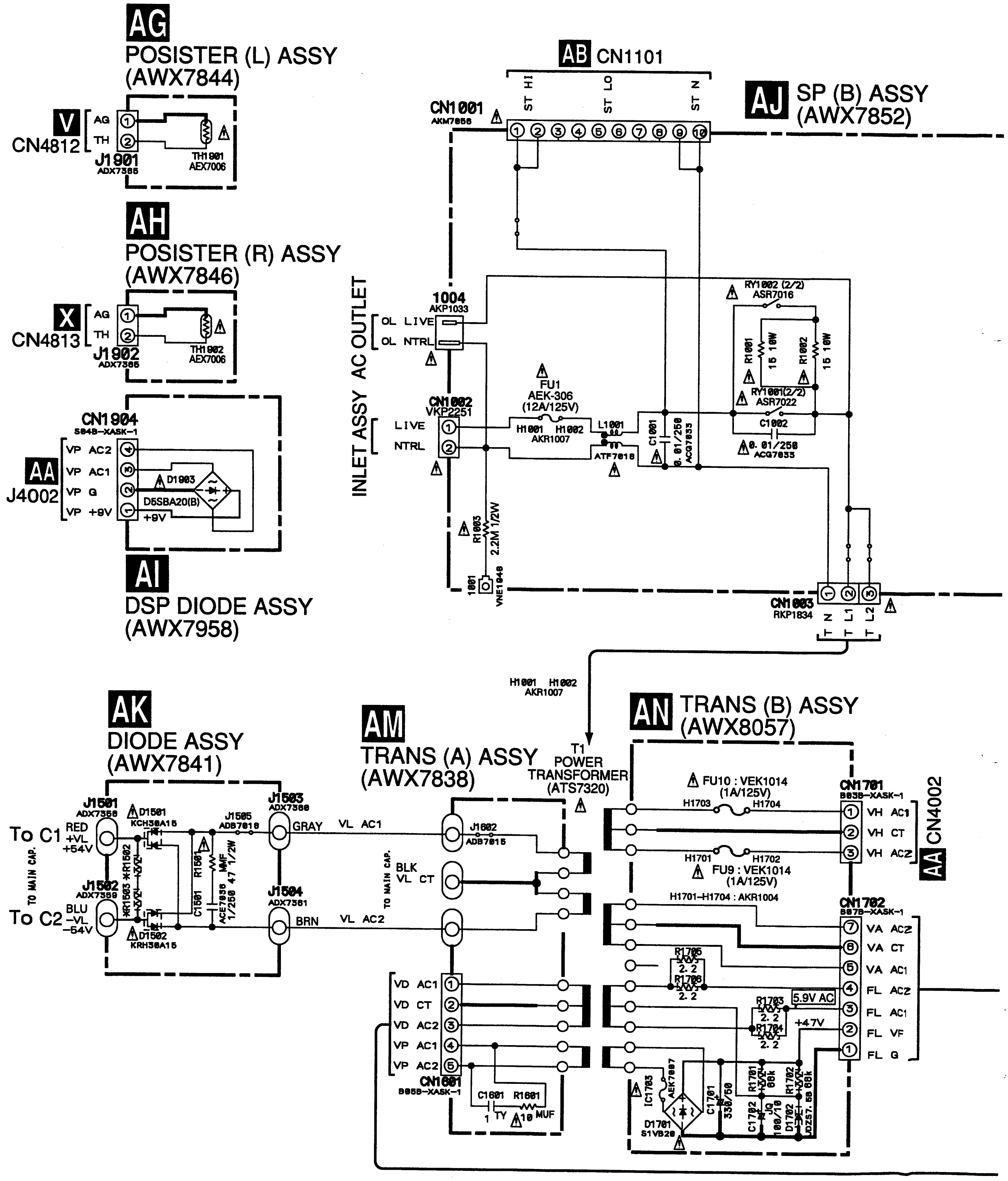
1. RESISTORS
   INDICATED IN Ohm 1/16W ± 5% TOLERANCE UNLESS NOTED K: KOhm M: MOhm
2. CAPACITORS
   INDICATED INCAPACITY (uF) / VOLTAGE (V) UNLESS OTHERWISE NOTED p: pF
   INDICATED WITHOUT VOLTAGE IS 50V
3. DIODES
   NO MARK DIODES ARE 1SS355
4. VOLTAGE
   INDICATED IN DC VOLTAGE

	RS1/16S***J	CH	CCSRCH***J**
TY	CFTYA***J50	YB	CKSRYB***K**
TL	CFTLA***J**		CEAT***M**
			CEJQ***M**

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

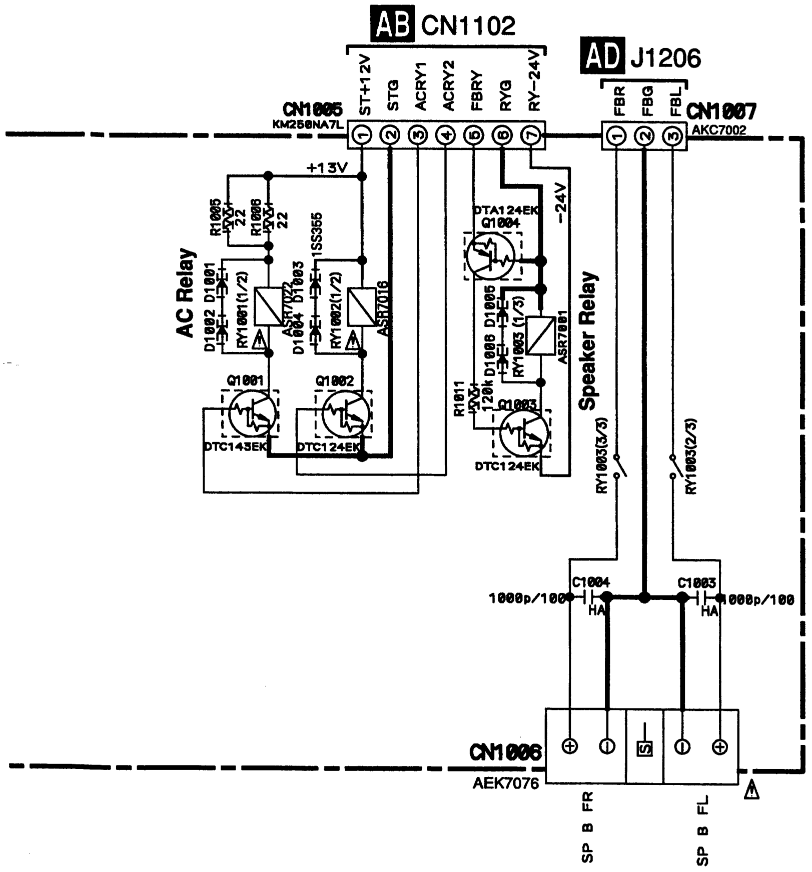

: AUDIO SIGNAL ROUTE
(F) : AUDIO SIGNAL ROUTE (F)
(C) : AUDIO SIGNAL ROUTE (C)
(S) : AUDIO SIGNAL ROUTE (S)
(SB) : AUDIO SIGNAL ROUTE (SB)
V J4801
X J4802
FL OUT
SL OUT
SBL OUT
C OUT
FR OUT
SR OUT
SBR OUT
CN1203 AKC7003
CN1204 AKC7002
AD SP (A) ASSY (AWX7848)
FLO SLO SBLO CO
FRO SRO SBRO
J1202 ADB7017
J1203 ADB7017
SH
Speaker Relay
C1201–C1207 : CQHA102J2A
L1201–L1207 : ATH1053
R1231–R1237 : RD1/4MUF100J
RY1201–RY1205 : ASR7001
CN1205 KM250NA8L
HPSW
RY FA
RY C
RY S
RY SB
RY HP
RY-24V
RYG
RFA RC RS RSB RHP
R2
CN1103 KP250NA8
Q1201 DTA124EK
RY1201 (1/3)
Q1202 DTC124EK
D1206 D1201 R1221 120k
Q1203 DTA124EK
RY1202(1/3)
Q1204 DTC124EK
D1207 D1202 R1222 120k
Q1205 DTA124EK
RY1203(1/3)
Q1206 DTC124EK
D1208 D1203 R1223 120k
Q1207 DTA124EK
RY1204(1/3)
Q1208 DTC124EK
D1209 D1204 R1224 120k
Q1209 DTA124EK
RY1205(1/3)
Q1210 DTC124EK
D1210 D1205 R1225 120k
K CN3203
HPSW HPL HPG HPR
CN1206 HLEM4S-1
R1211 330 2W
RY1205(2/3)
R1212 330 2W
RY1205(3/3)
J1206 ADX7364
AJ CN1007
FBL FBG FBR
SG
FRG FLG CG SLG SBRG SBLG SRG
J1205 ADB7017
J1204 ADB7017
J1209 ADB7018
J1201 ADX7362
J1207 ADX7368
J1208 ADX7368
TO POWER AMP
TO MAIN CAP.
FLO L1201 RY1201 (2/3) R1231 FLG C1201
FRG FRO L1202 RY1201 (3/3) R1232 C1202
CG CO L1203 RY1202 (2/3) R1233 RY1202 (3/3) C1203
SLO L1204 RY1203 (2/3) R1234 SLG C1204
SRG L1235 SRO L1205 RY1203 (3/3) C1205
SBLO L1206 RY1204 (2/3) R1236 SBLG C1206
SBRG SBRO L1207 RY1204 (3/3) R1237 C1207
CN1201 AKE7075
SP A FL
SP A FR
SP C
CN1202 AKE7074
SP SL
SP SR
SP SBL
SP SBR
AF STANDBY ASSY (AWX7901)
CN1903
GND STANDBY GND
S1901 ASG7013
52044-0345
M CN3002

3.32 POSISTER (L), POSISTER (R), DSP DIODE, SP (B), DIODE, FUSE, TRANS (A) and TRANS (B) ASSYS


AG
POSISTER (L) ASSY
(AWX7844)
V
CN4812
AG
TH
J1901
ADX7365
TH1901
AEX7006
AH
POSISTER (R) ASSY
(AWX7846)
X
CN4813
AG
TH
J1902
ADX7365
TH1902
AEX7006
CN1904
S04B-XASK-1
AA
J4002
VP AC2
VP AC1
VP G
VP +9V
D1903
D5SBA20(B)
+9V
AI
DSP DIODE ASSY
(AWX7958)
AB
CN1101
ST HI
ST LO
ST N
AJ
SP (B) ASSY
(AWX7852)
CN1001
AKM7056
INLET ASSY AC OUTLET
1004
AKP1033
OL LIVE
OL NTRL
CN1002
VKP2251
LIVE
NTRL
FU1
AEK-306
(12A/125V)
H1001 H1002
AKR1007
L1001
ATF7016
C1001
0.01/250
ACG7033
RY1002 (2/2)
ASR7016
R1001
15 10W
R1002
15 10W
RY1001(2/2)
ASR7022
C1002
0.01/250
ACG7033
R1003
2.2M 1/2W
1001
VNE1048
CN1003
RKP1834
N
L1
L2
H1001 H1002
AKR1007
T1
POWER
TRANSFORMER
(ATS7320)
AK
DIODE ASSY
(AWX7841)
J1501
ADX7358
To C1
RED
+VL
+54V
D1501
KCH30A15
J1505
ADB7016
J1503
ADX7360
GRAY
VL AC1
R1503
R1502
R1501
C1501
ACE7036
MMF
1/250 47 1/2W
J1502
ADX7359
To C2
BLU
-VL
-54V
D1502
KRH30A15
J1504
ADX7361
BRN
VL AC2
TO MAIN CAP.
AM
TRANS (A) ASSY
(AWX7838)
J1602
ADB7015
BLK
VL CT
TO MAIN CAP.
VD AC1
VD CT
VD AC2
VP AC1
VP AC2
CN1601
B05B-XASK-1
C1601
1 TY
R1601
10 MUF
AN
TRANS (B) ASSY
(AWX8057)
FU10 : VEK1014
(1A/125V)
H1703
H1704
H1701
H1702
FU9 : VEK1014
(1A/125V)
H1701–H1704 : AKR1004
CN1701
B03B-XASK-1
VH AC1
VH CT
VH AC2
AA
CN4002
CN1702
B07B-XASK-1
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
R1705
2.2
R1706
2.2
R1703
2.2
R1704
2.2
5.9V AC
+47V
IC1703
AEK7007
D1701
S1VB20
C1701
330/50
R1701
68k
C1702
JQ
100/10
R1702
68k
D1702
UDZS7.5B 68k

• NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

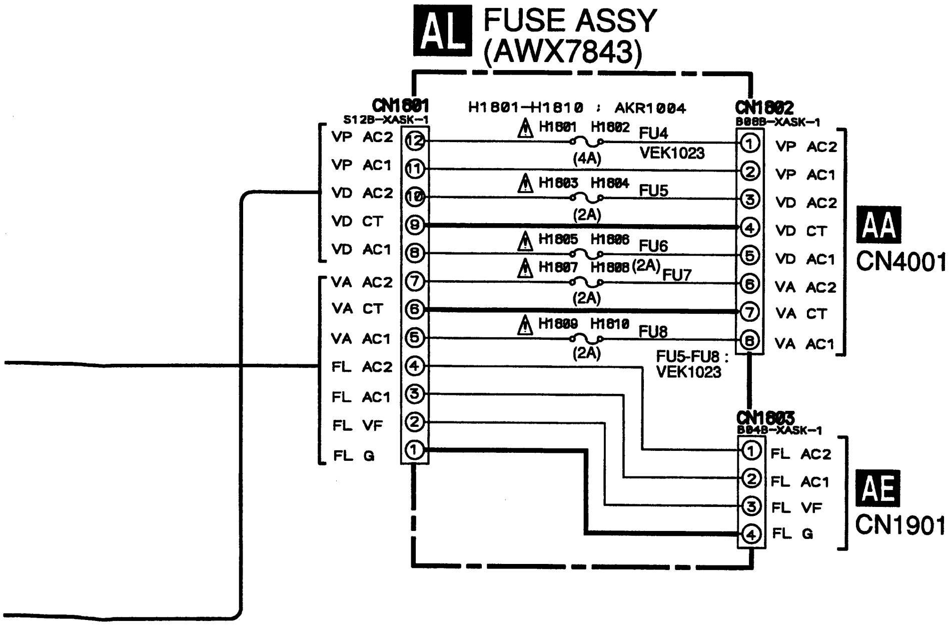

AB CN1102
AD J1206
ST+12V
STG
ACRY1
ACRY2
FBRY
RYG
RY-24V
FBR
FBG
FBL
CN1005
KM250NA7L
CN1007
AKC7002
+13V
-24V
R1005 22
R1006 22
1SS355
AC Relay
D1002 D1001
RY1001(1/2)
ASR7022
D1004 D1003
RY1002(1/2)
ASR7016
Q1001
DTC143EK
Q1002
DTC124EK
DTA124EK
Q1004
D1006 D1005
RY1003 (1/3)
ASR7001
R1011 120k
Q1003
DTC124EK
Speaker Relay
RY1003(3/3)
RY1003(2/3)
C1004
C1003
1000p/100
HA
1000p/100
HA
CN1006
AEK7076
SP B FR
SP B FL

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

NOTES

1. RESISTORS
   INDICATED IN Ohm 1/16W ±5% TOLERANCE UNLESS NOTED K;KOhm M;MOhm
2. CAPACITORS
   INDICATED INCAPACITY(uF)/ VOLTAGE (V) UNLESS OTHERWISE NOTED p;pF
   INDICATED WITHOUT VOLTAGE IS 50V EXCEPT
3. DIODES
   NO MARK DIODES ARE 1SS355
4. VOLTAGE
   INDICATED IN DC VOLTAGE

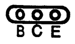
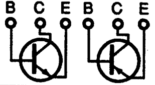
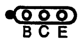
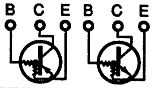
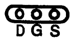
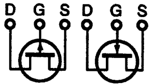
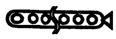
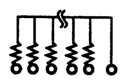
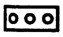
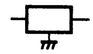
MUF	RD1/8MUF***J
MMF	RD1/2MMF***J
TY	CFTYA***J50
HA	CQHA***J**
	CEAT***M**
JQ	CEJQ***M**


AL FUSE ASSY (AWX7843)
CN1801
S12B-XASK-1
H1801-H1810 : AKR1004
CN1802
B08B-XASK-1
VP AC2
VP AC1
VD AC2
VD CT
VD AC1
VA AC2
VA CT
VA AC1
FL AC2
FL AC1
FL VF
FL G
H1801 H1802 FU4
(4A)
VEK1023
H1803 H1804 FU5
(2A)
H1805 H1806 FU6
H1807 H1808 (2A) FU7
(2A)
H1809 H1810 FU8
(2A)
FU5-FU8 : VEK1023
CN1803
B04B-XASK-1
AA CN4001
AE CN1901

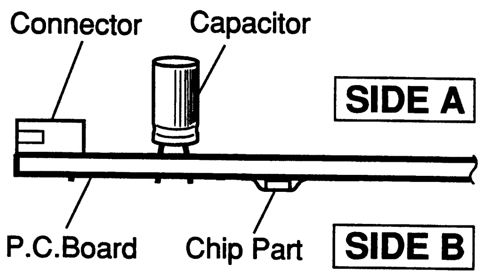
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

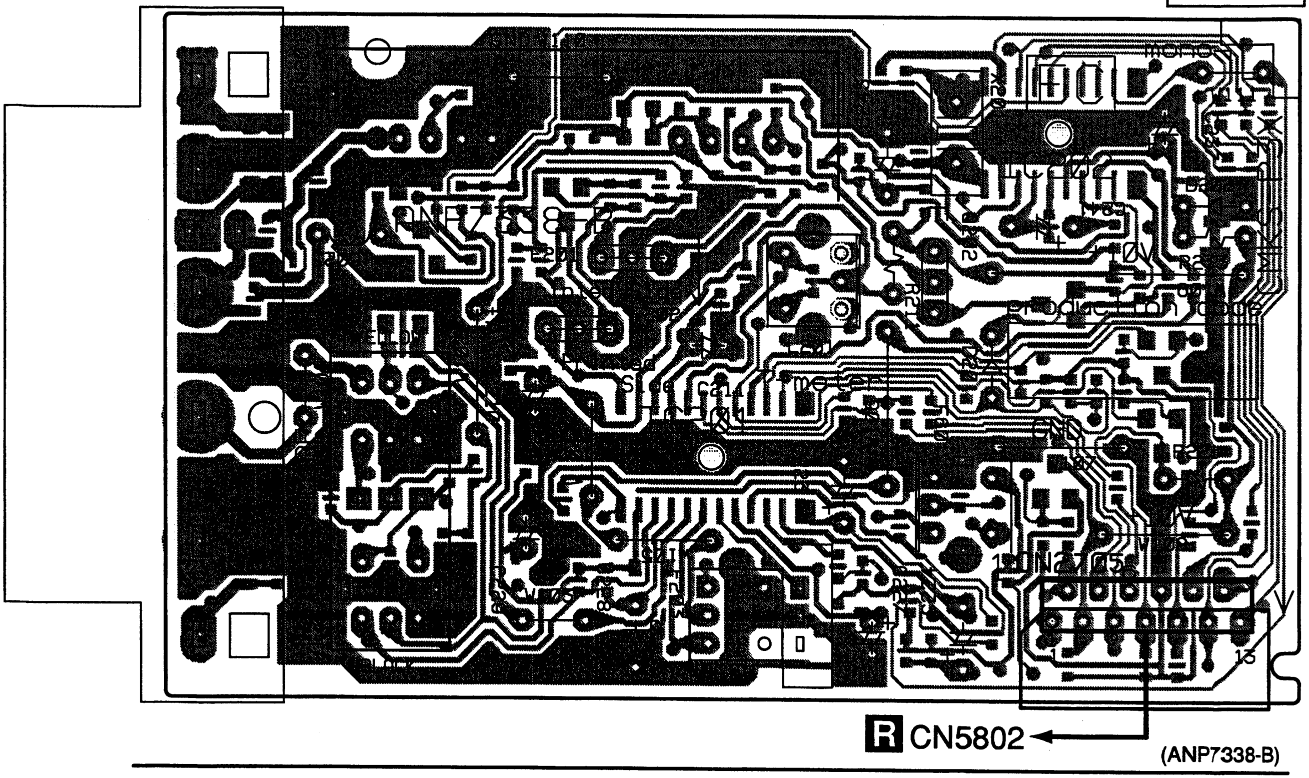
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

4.1 FM/AM TUNER MODULE

A FM/AM TUNER MODULE

SIDE A

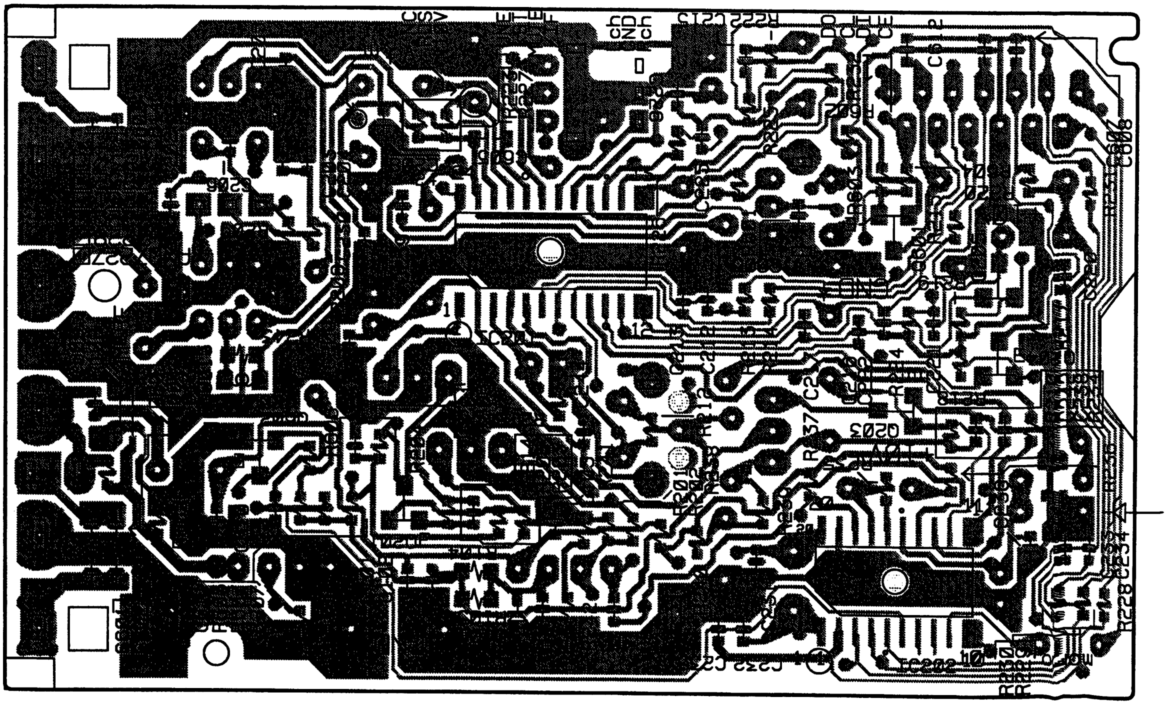


(ANP7338-B)

Q202

A FM/AM TUNER MODULE

SIDE B



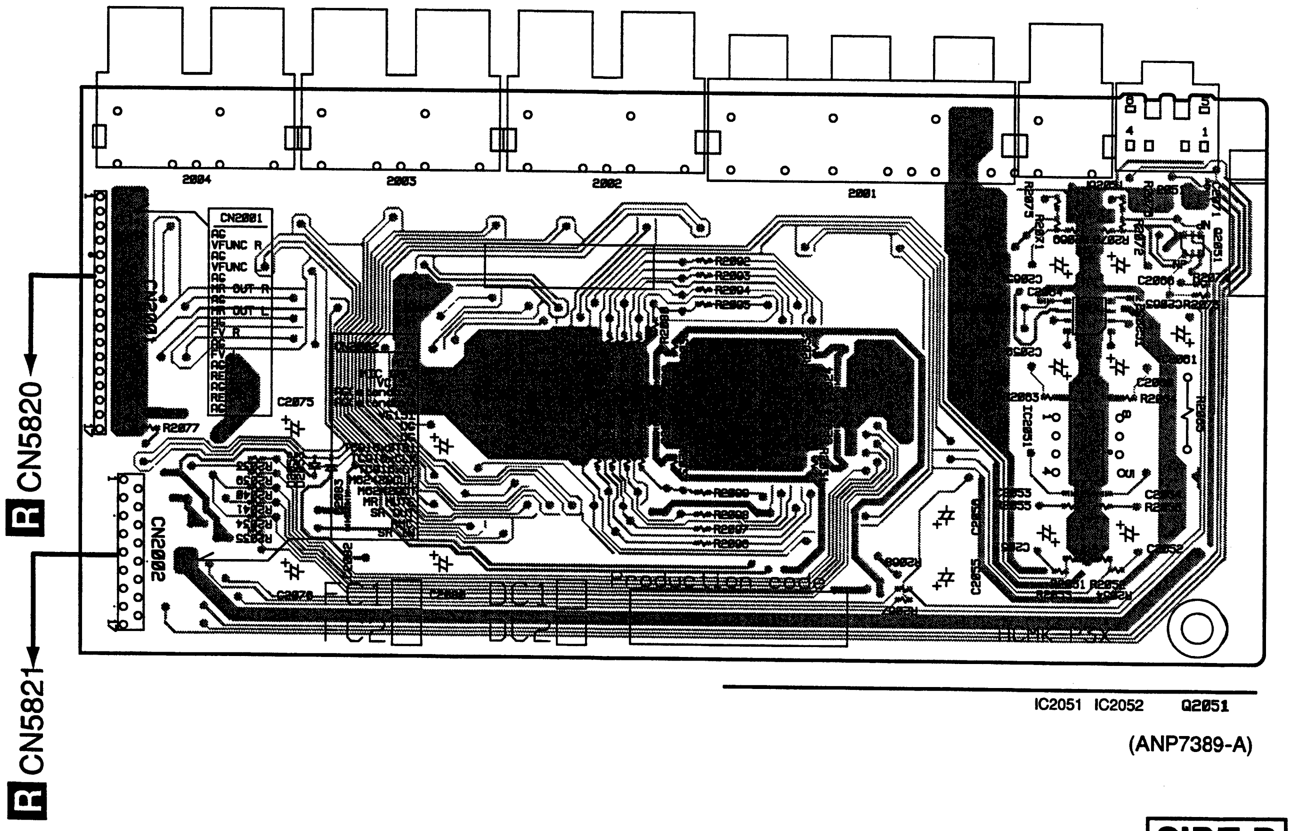
(ANP7338-B)

Q602 Q201 IC201 Q203 Q601 Q205
IC202 Q204

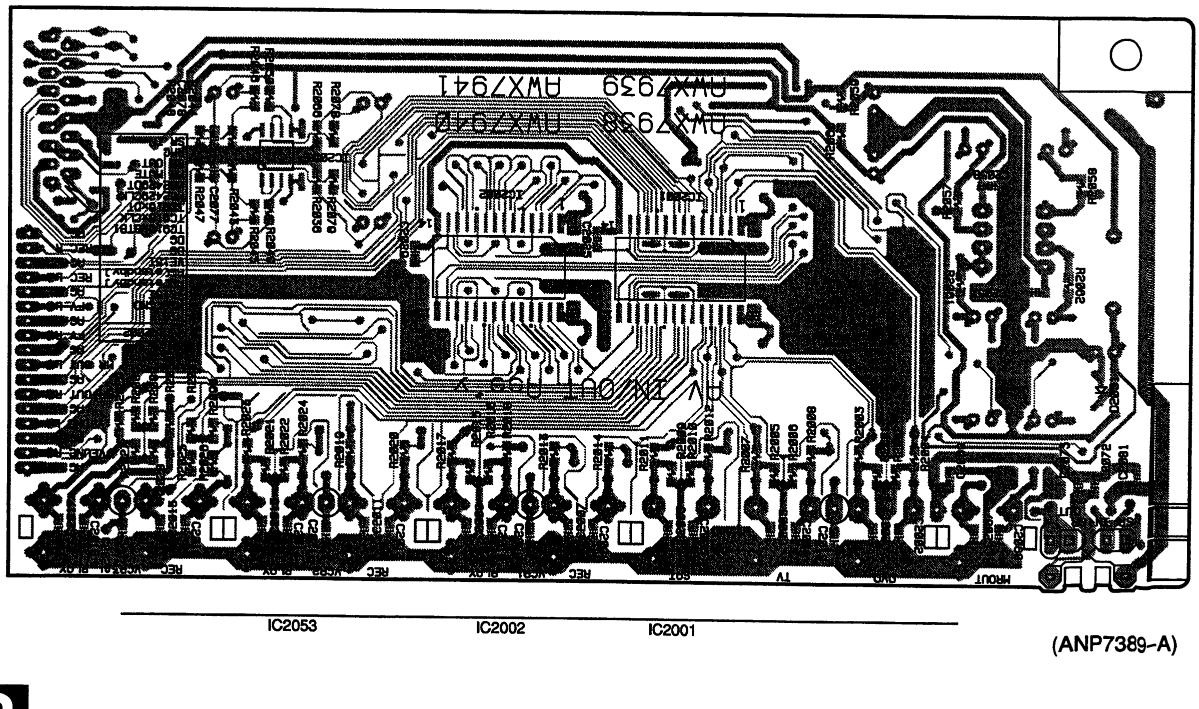
4.2 A/V I/O ASSY

B A/V I/O ASSY

SIDE A


2004
2003
2002
2001
CN2001
CN2002
C2075
R2077
C2076
FC1
FC2
DC1
DC2
Production code
HCMK PSX
R CN5820
R CN5821
IC2051 IC2052 Q2051
(ANP7389-A)

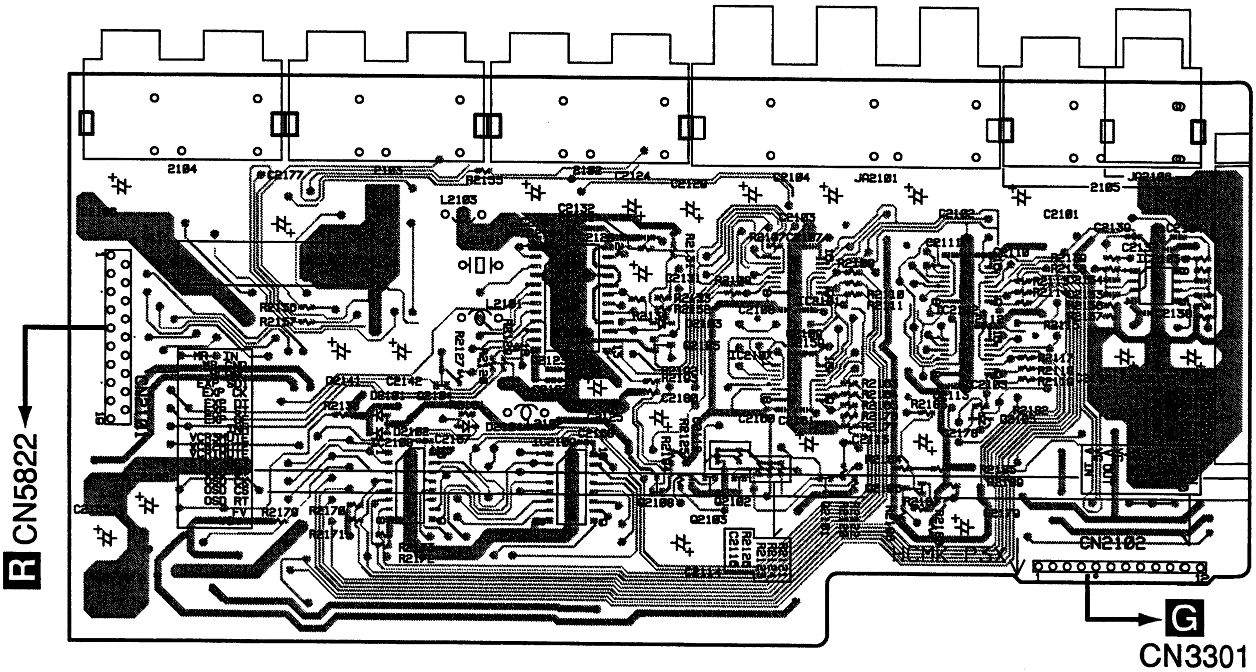
SIDE B


AWX7941 AWX7939
AWX7940 AWX7938
REC
PLAY
TV
DVD
HROUT
IC2053 IC2002 IC2001
(ANP7389-A)

4.3 COMPOSITE ASSY

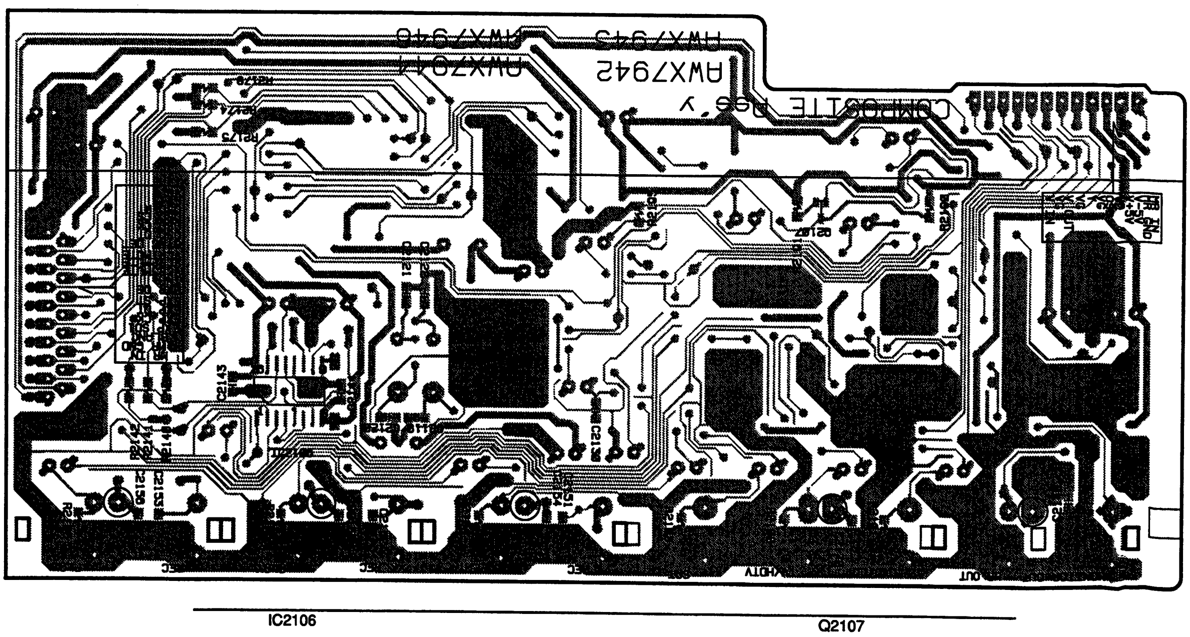
C COMPOSITE ASSY

SIDE A


R CN5822
G CN3301
CN2102
Q2104
IC2108
IC2104
IC2109
Q2105
Q2108
Q2103
IC2107
Q2102
IC2101
Q2101
Q2106
IC2102
IC2103
IC2105

(ANP7389-A)

SIDE B

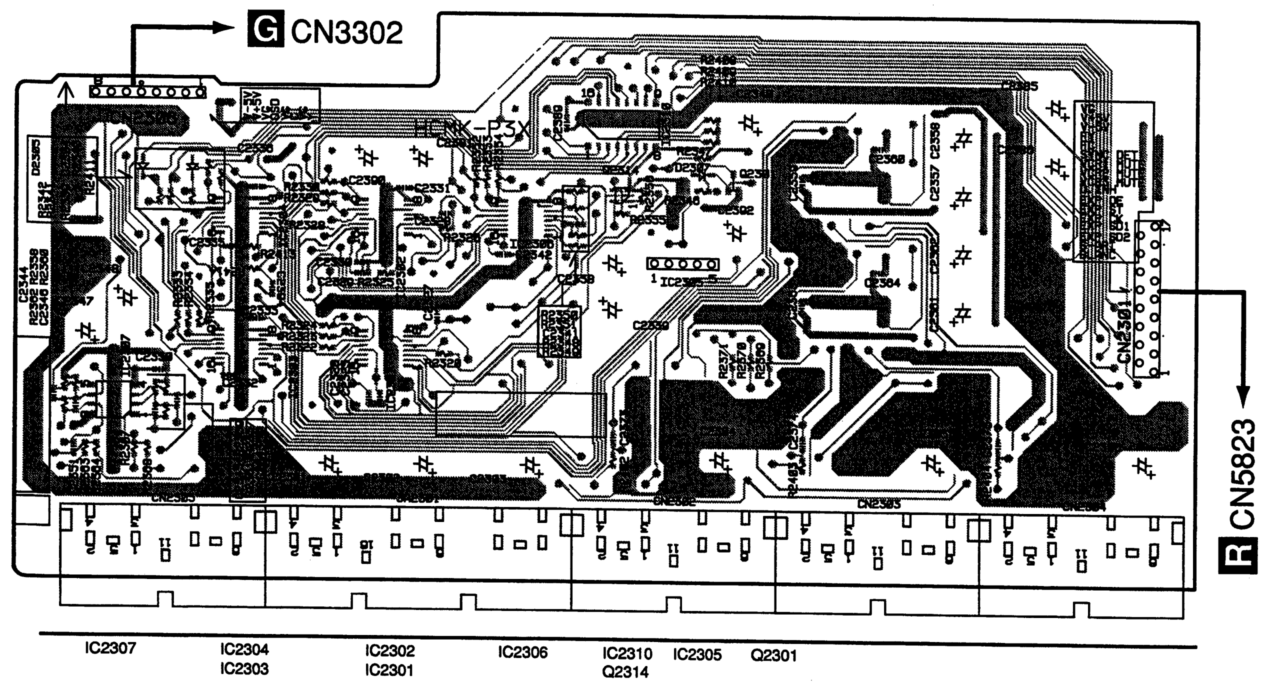

AWX7942
COMPOSITE Ass'y
IC2106
Q2107

(ANP7389-A)

4.4 S-VIDEO ASSY

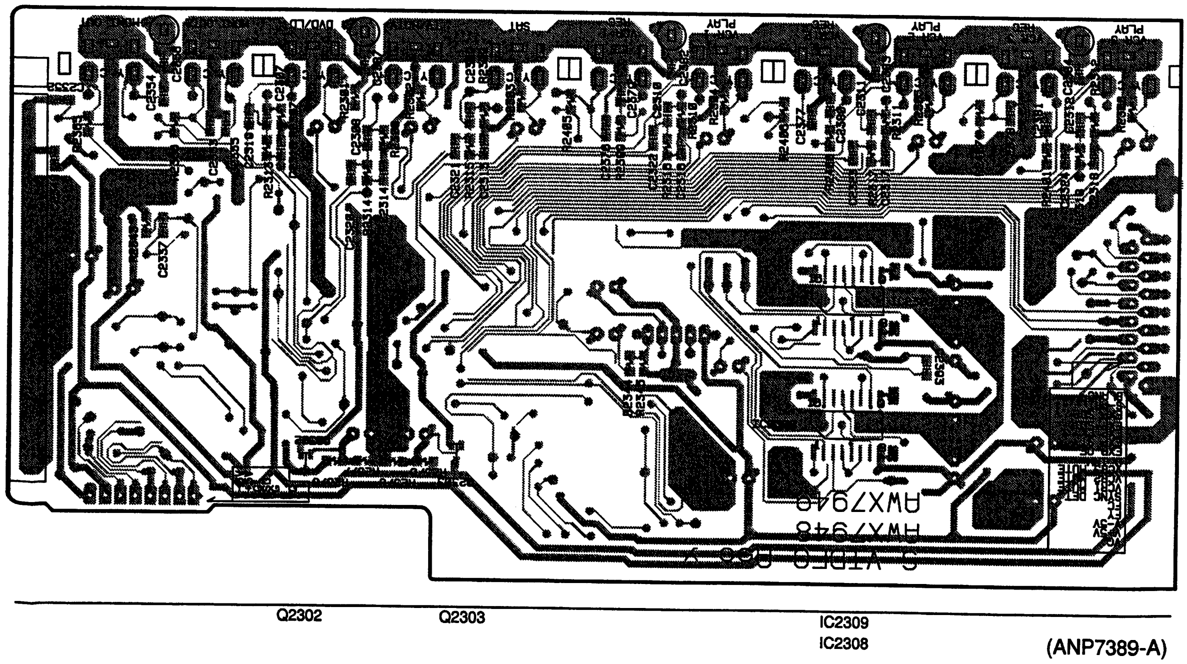
D S-VIDEO ASSY

SIDE A


G CN3302
R CN5823
CN2301
CN2303
CN2302
CN2304
HCMK-P3X
IC2307
IC2304
IC2303
IC2302
IC2301
IC2306
IC2310
Q2314
IC2305
Q2301

(ANP7389-A)

SIDE B

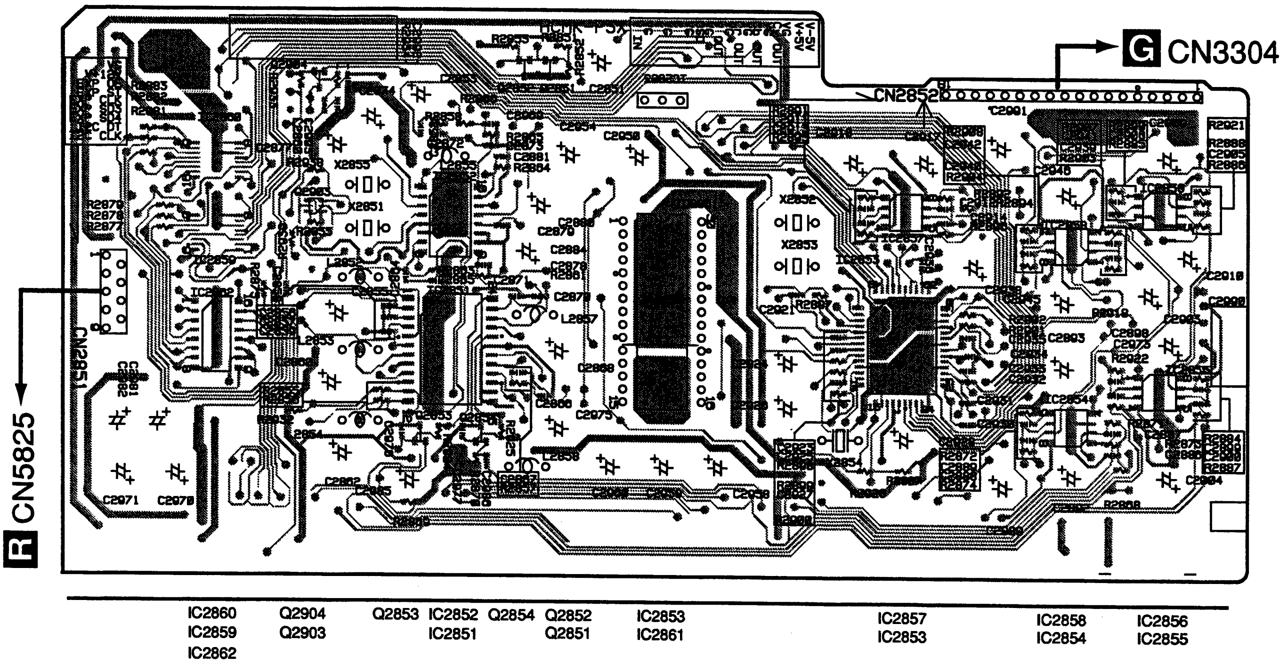

S VIDEO ASSY
AWX7948
AWX7949
Q2302
Q2303
IC2309
IC2308

(ANP7389-A)

4.5 V-CONVERT ASSY (VSX-49TX ONLY)

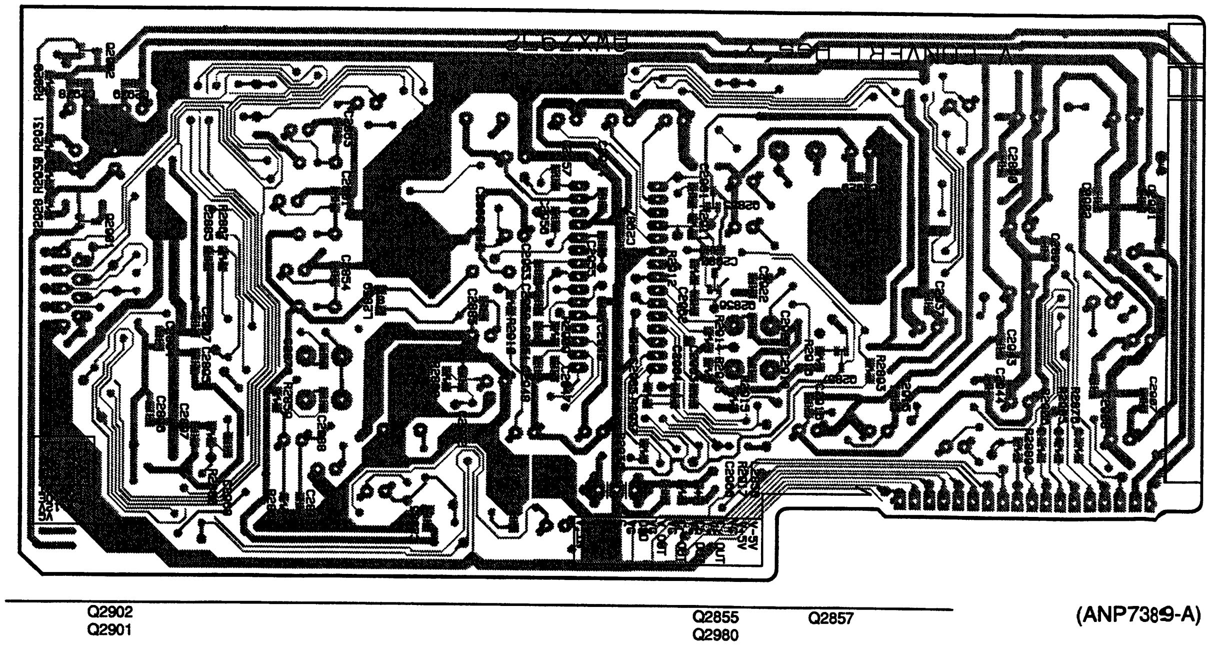
SIDE A

E V-CONVERT ASSY


G CN3304
CN2852
CN2851
R CN5825
IC2860
IC2859
IC2862
Q2904
Q2903
Q2853
IC2852
IC2851
Q2854
Q2852
Q2851
IC2853
IC2861
IC2857
IC2853
IC2858
IC2854
IC2856
IC2855

(ANP7389-A)

SIDE B

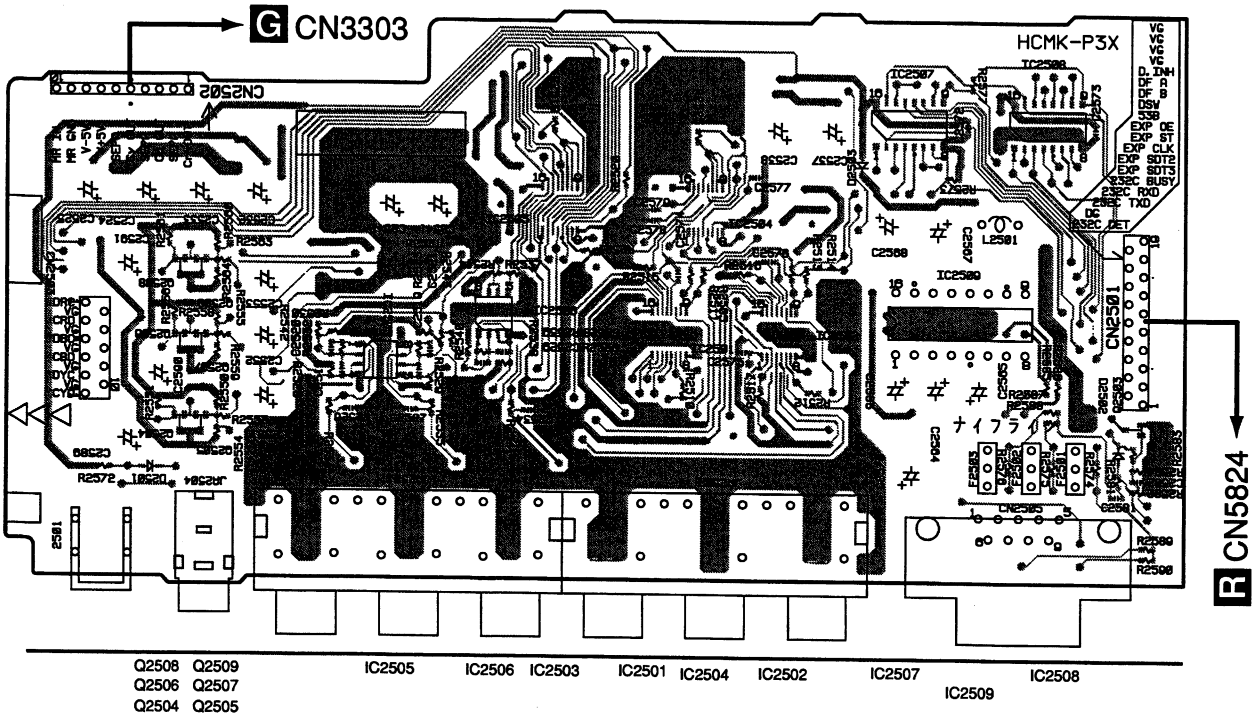

Q2902
Q2901
Q2855
Q2980
Q2857

(ANP7389-A)

4.6 COMPONENT ASSY

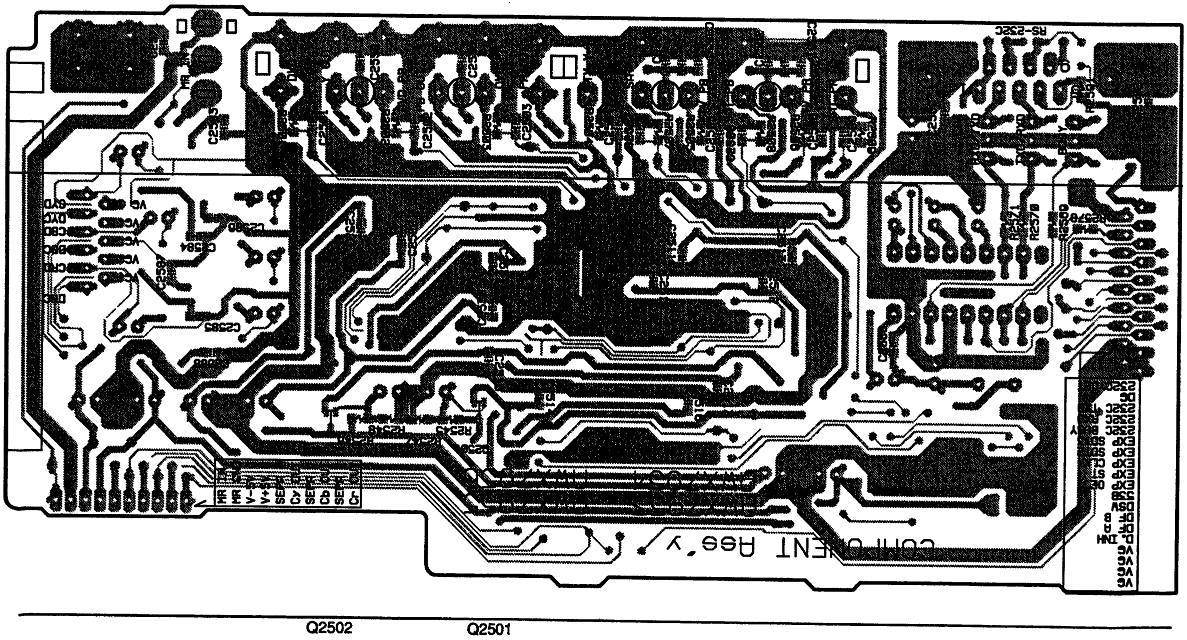
F COMPONENT ASSY

SIDE A


G CN3303
HCMK-P3X
CN2502
IC2507
IC2508
IC2509
CN2501
CN2505
R CN5824
VG
VG
VG
VG
D.INH
DF A
DF B
DSV
33B
EXP OE
EXP ST
EXP CLK
EXP SDT2
EXP SDT3
232C BUSY
232C RXD
232C TXD
DE
232C DET
Q2508 Q2509
Q2506 Q2507
Q2504 Q2505
IC2505
IC2506
IC2503
IC2501
IC2504
IC2502
IC2507
IC2509
IC2508

(ANP7389-A)

SIDE B

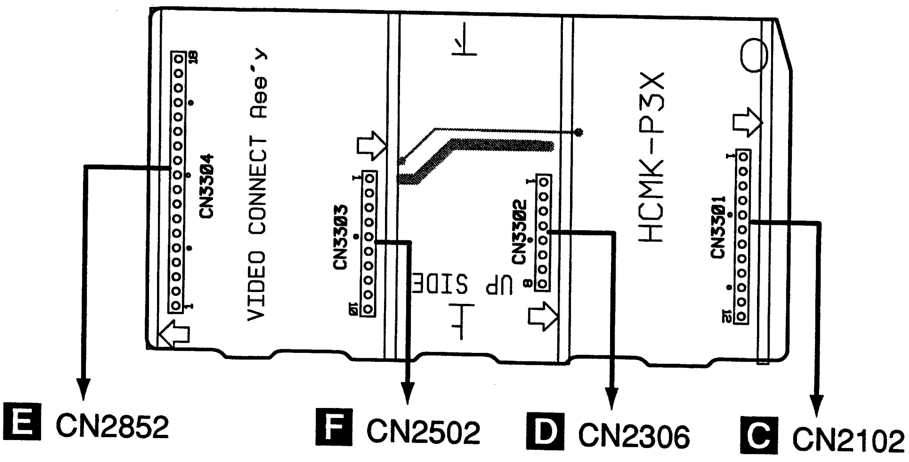

RS-232C
COMPONENT Ass'y
Q2502
Q2501

(ANP7389-A)

4.7 VIDEO CONNECT ASSY

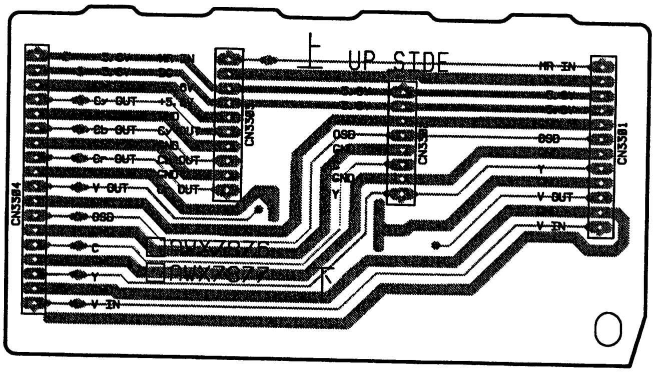
SIDE A

G VIDEO CONNECT ASSY


CN3304
18
1
VIDEO CONNECT Ass'y
CN3303
10
1
UP SIDE
CN3302
8
HCMK-P3X
CN3301
12
1
E CN2852
F CN2502
D CN2306
C CN2102

(ANP7390-A)

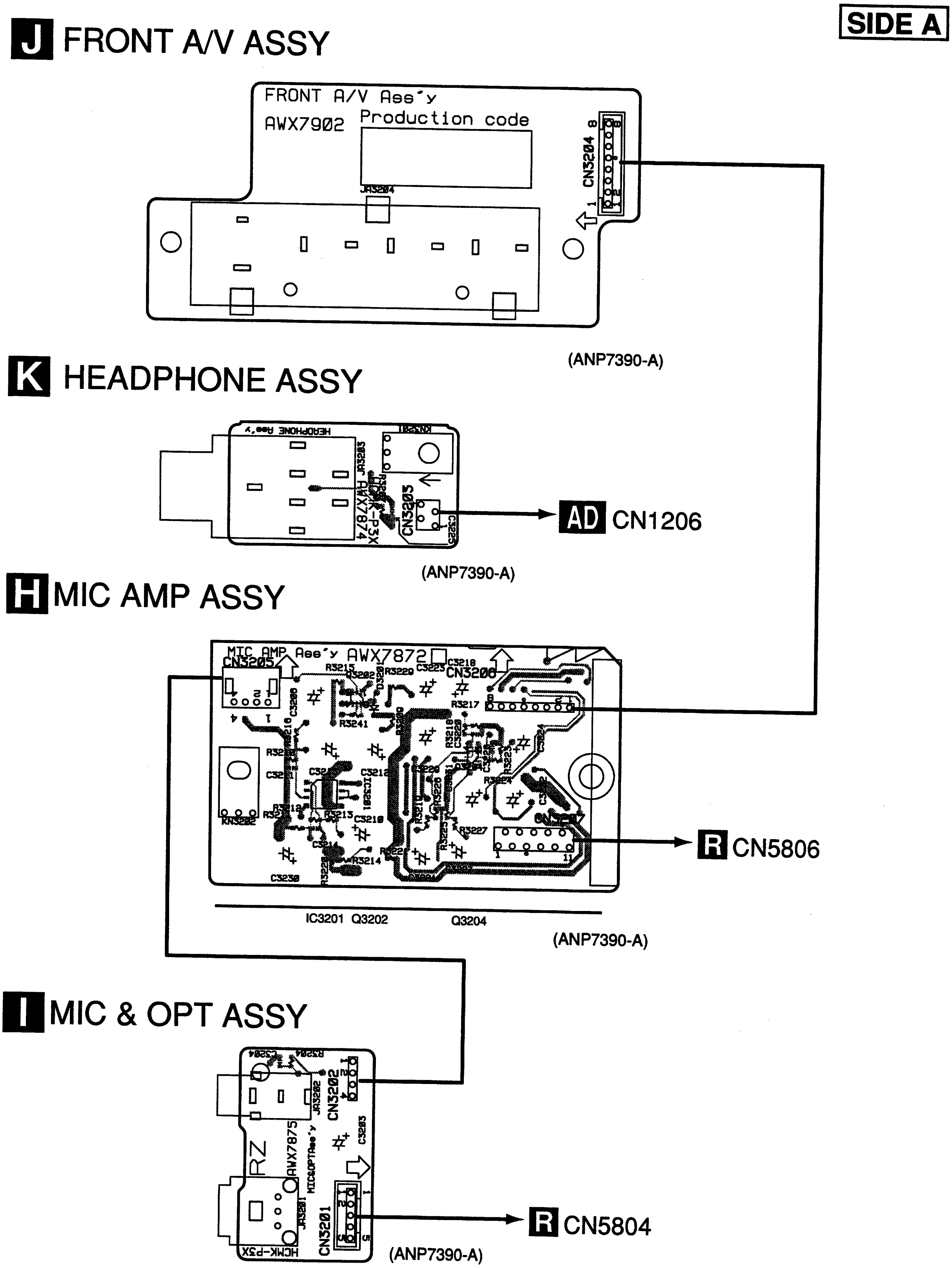
SIDE B


UP SIDE
CN3304
CN3303
CN3302
CN3301
Cb OUT
Cr OUT
V OUT
OSD
C
Y
V IN
MR IN
OSD
Y
V OUT
V IN

(ANP7390-A)

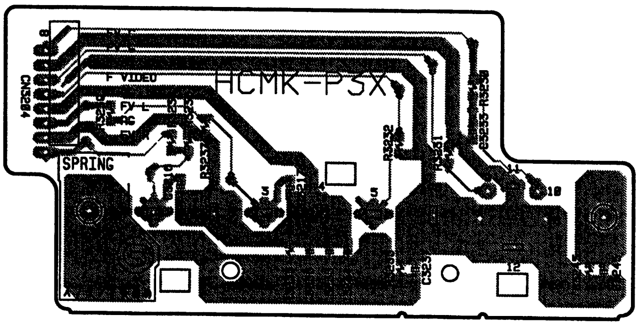
4.8 MIC AMP, MIC & OPT, RFONT A/V and HEADPHONE ASSYS

SIDE A


J FRONT A/V ASSY
FRONT A/V Ass'y
AWX7902
Production code
CN3204
JA3204
(ANP7390-A)
K HEADPHONE ASSY
HEADPHONE Ass'y
KN3201
JA3203
AWX7874
XK-P3X
CN3203
AD CN1206
(ANP7390-A)
H MIC AMP ASSY
MIC AMP Ass'y AWX7872
CN3205
CN3206
CN3207
KN3202
R CN5806
IC3201 Q3202 Q3204
(ANP7390-A)
I MIC & OPT ASSY
CN3202
JA3202
AWX7875
MIC&OPT Ass'y
CN3201
JA3201
HCMK-P3X
R CN5804
(ANP7390-A)

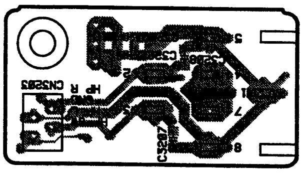
SIDE B

J FRONT A/V ASSY


CN5204
F VIDEO
FV L
SPRING
HCMK-P3X
R5252
R5251
R5255-R5258
C525
12
18
11

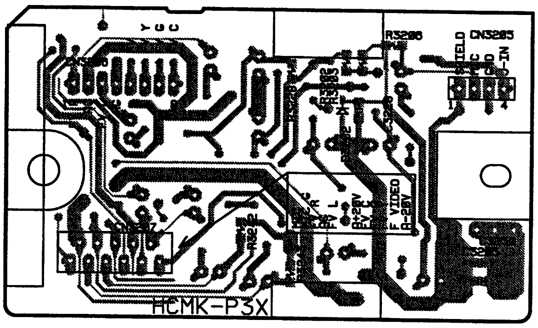
(ANP7390-A)

K HEADPHONE ASSY


CN5205
HP R
5
7
8
C5267

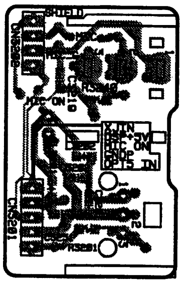
(ANP7390-A)

H MIC AMP ASSY


Y G C
R5286
CN3285
SHIELD
F VIDEO
R-28V
HCMK-P3X

(ANP7390-A)

I MIC & OPT ASSY

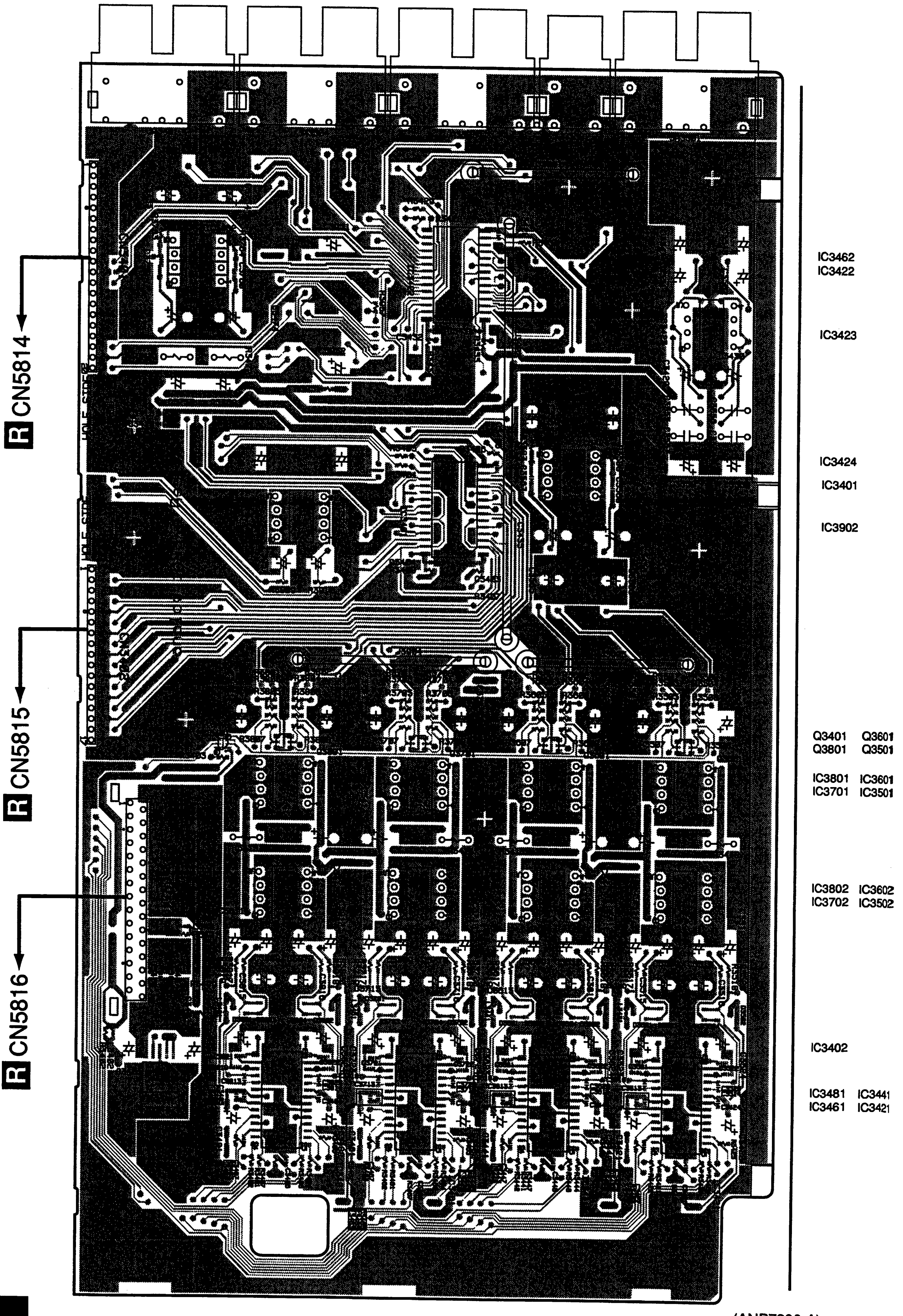

SHIELD
MIC ON
X IN
OPT5 IN
CN5201
R5281

(ANP7390-A)

4.9 ANALOG IN & A/D ASSY

L ANALOG IN & A/D ASSY

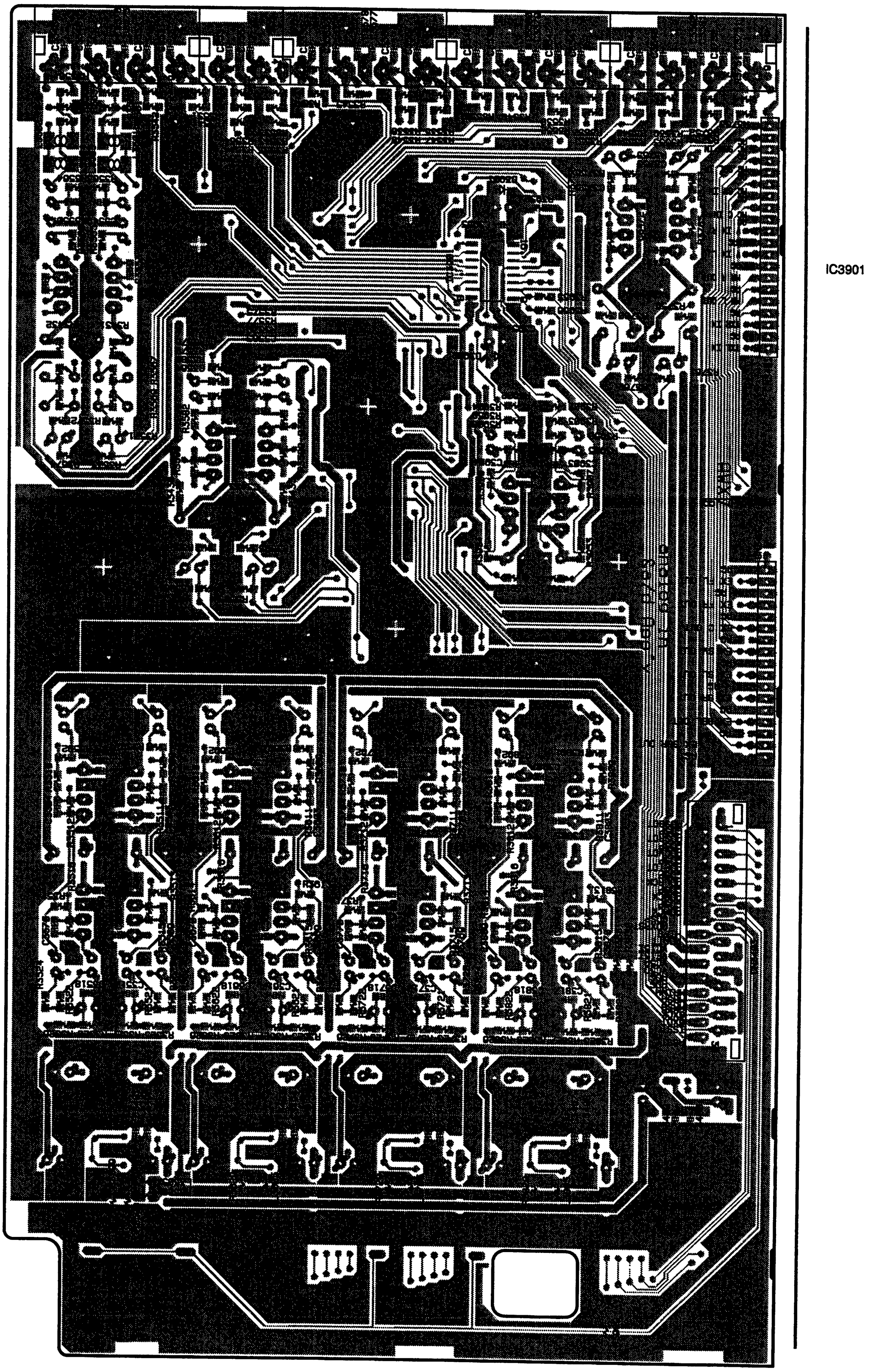
SIDE A


R CN5814
R CN5815
R CN5816
IC3462
IC3422
IC3423
IC3424
IC3401
IC3902
Q3401 Q3601
Q3801 Q3501
IC3801 IC3601
IC3701 IC3501
IC3802 IC3602
IC3702 IC3502
IC3402
IC3481 IC3441
IC3461 IC3421

(ANP7390-A)

SIDE B

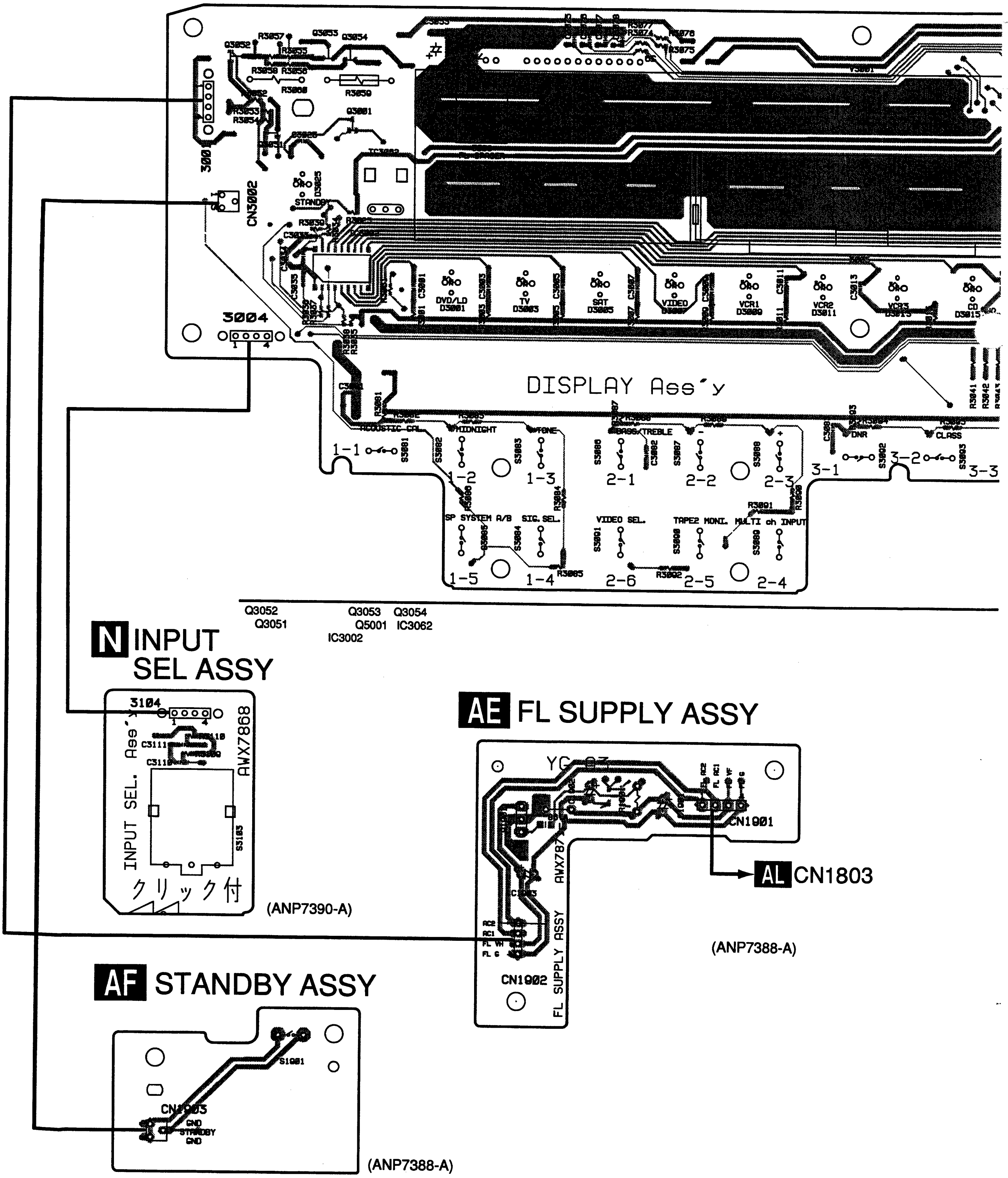
L ANALOG IN & A/D ASSY



(ANP7390-A)

4.10 DISPLAY, INPUT SEL, MULTI JOG, VOL, FL SUPPLY and STANDBY ASSYS

M DISPLAY ASSY


A
B
C
D
300
CN3002
3004
STANDBY
DVD/LD D3001
TV D3003
SAT D3005
VIDEO D3007
VCR1 D3009
VCR2 D3011
VCR3 D3013
CD D3015
V3001
DISPLAY Ass'y
ACOUSTIC CAL.
MIDNIGHT
TONE
BASS/TREBLE
DNR
CLASS
1-1
1-2
1-3
2-1
2-2
2-3
3-1
3-2
3-3
SP SYSTEM A/B
SIG. SEL.
VIDEO SEL.
TAPE2 MONI.
MULTI ch INPUT
1-5
1-4
2-6
2-5
2-4
Q3052
Q3051
Q3053
Q3054
Q5001
IC3062
IC3002
3104
INPUT SEL. Ass'y
AWX7868
S3103
クリック付
CN1901
CN1902
FL SUPPLY ASSY
RC2
RC1
FL VH
FL G
S1001
CN1003
GND
STANDBY
GND

N INPUT SEL ASSY

(ANP7390-A)

AE FL SUPPLY ASSY

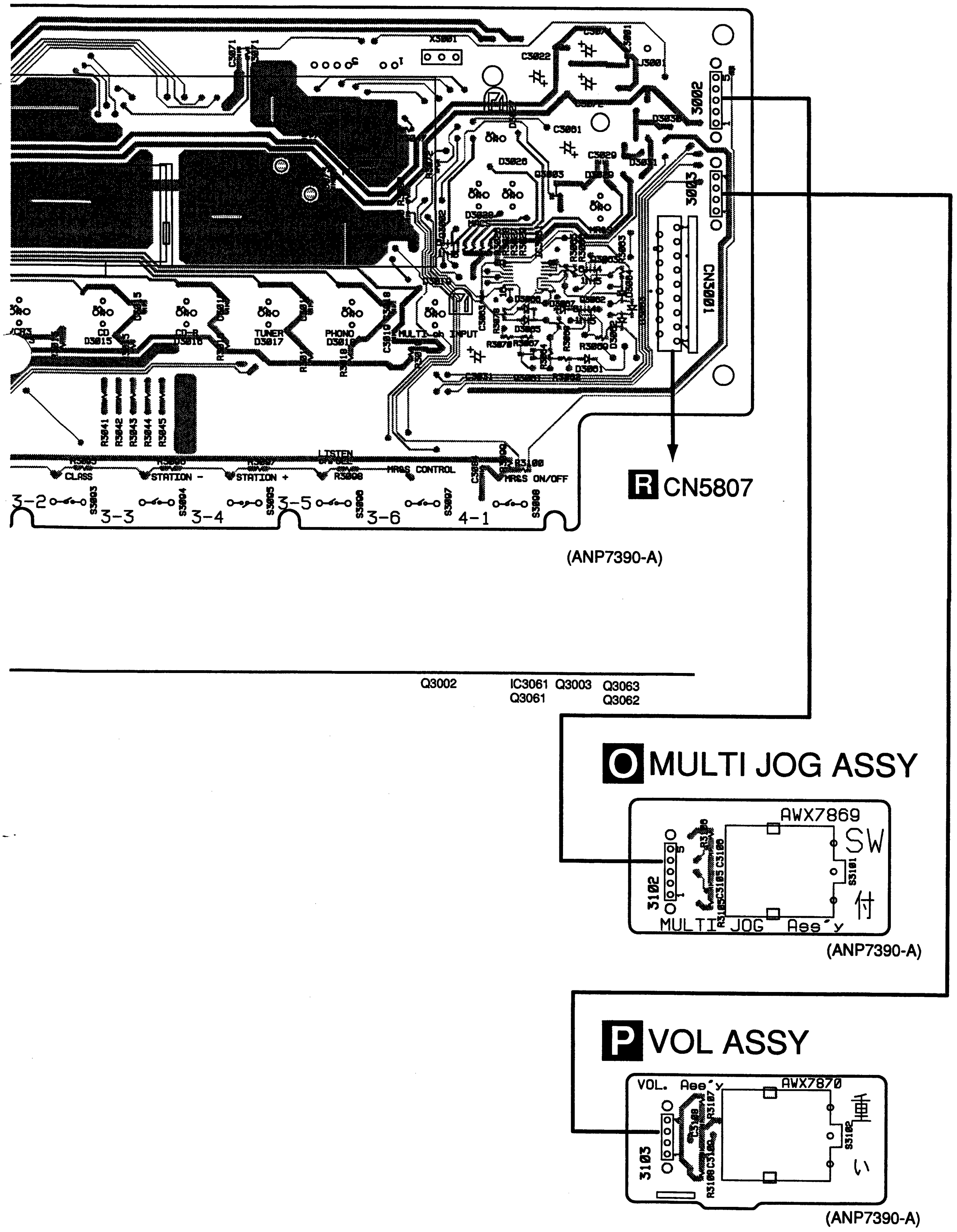
AL CN1803

(ANP7388-A)

AF STANDBY ASSY

(ANP7388-A)

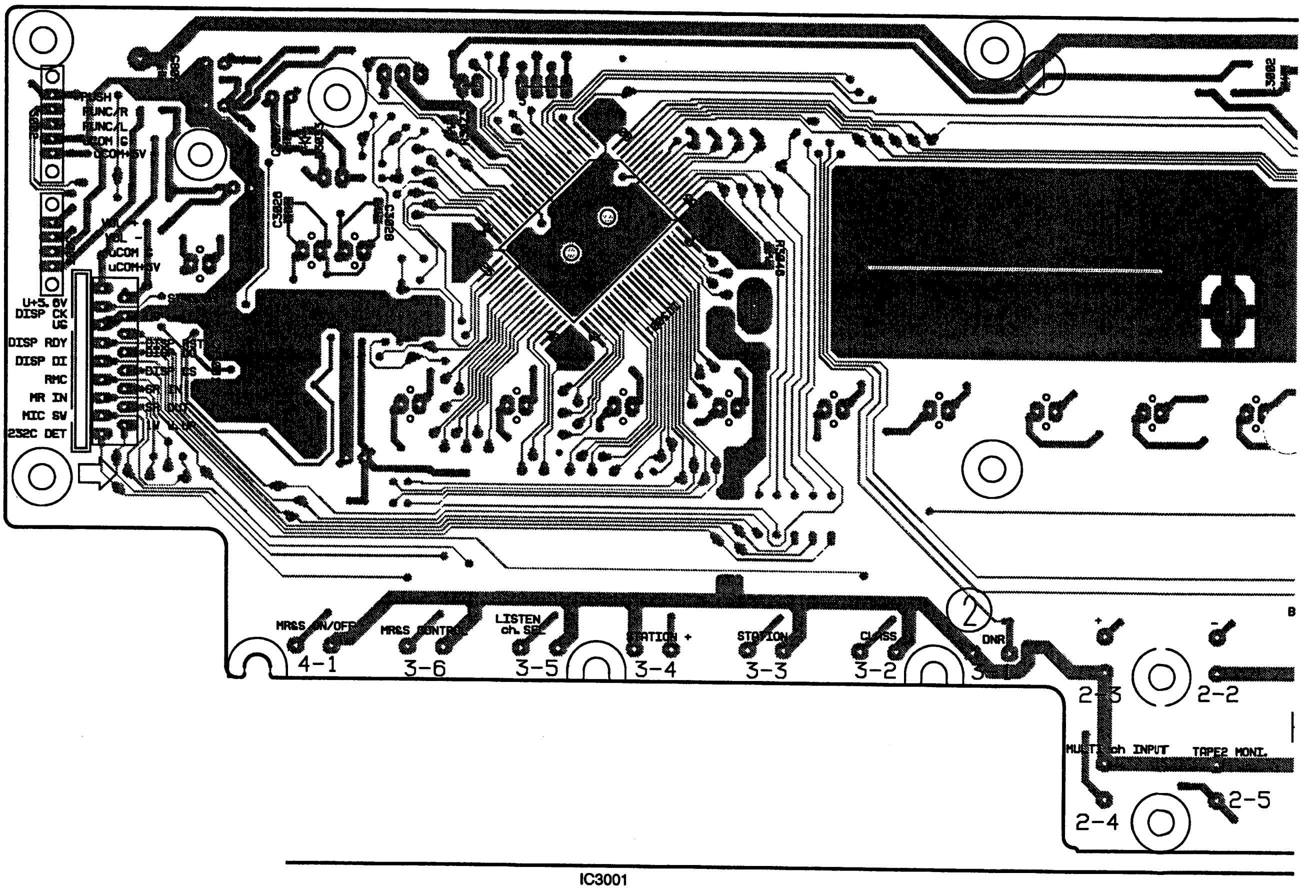
SIDE A


X3001
C3071
C3022
J3001
3002
D3030
C3061
D3026
C3029
D3031
Q3003
3003
CN3001
CD
D3015
CD-R
D3016
TUNER
D3017
PHONO
D3018
MULTI-ch INPUT
R3041
R3042
R3043
R3044
R3045
LISTEN
CLASS
STATION −
STATION +
R3008
MR&S CONTROL
R3100
MR&S ON/OFF
S3003
S3004
S3005
S3006
S3007
S3008
3-2
3-3
3-4
3-5
3-6
4-1
R CN5807
(ANP7390-A)
Q3002
IC3061
Q3061
Q3003
Q3063
Q3062
O MULTI JOG ASSY
AWX7869
SW
付
3102
S3101
C3105
C3106
MULTI JOG Ass'y
(ANP7390-A)
P VOL ASSY
VOL. Ass'y
AWX7870
重
い
3103
S3102
R3107
C3108
(ANP7390-A)

A B C D

A

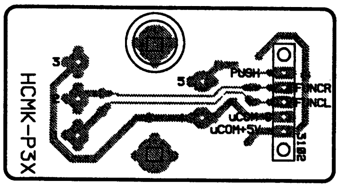
M DISPLAY ASSY


PUSH
FUNC/R
FUNC/L
uCOM G
uCOM+5V
VOL +
VOL -
uCOM G
uCOM+5V
U+5.6V
DISP CK
UG
DISP RDY
DISP DI
RMC
MR IN
MIC SV
232C DET
DISP RST
DISP DO
DISP CS
SR IN
SR OUT
C3028
C3026
3002
MR&S ON/OFF
4-1
MR&S CONTROL
3-6
LISTEN ch. SEL
3-5
STATION +
3-4
STATION -
3-3
CLASS
3-2
DNR
+
-
2-3
2-2
MULTI ch INPUT
TAPE2 MONI.
2-4
2-5
②
IC3001

B

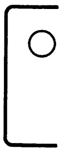
C

O MULTI JOG ASSY

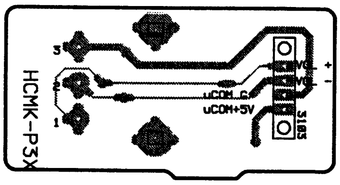

HCMK-P3X
3
5
PUSH
INCR
INCL
uCOM G
uCOM+5V
3102

(ANP7390-A)

AE



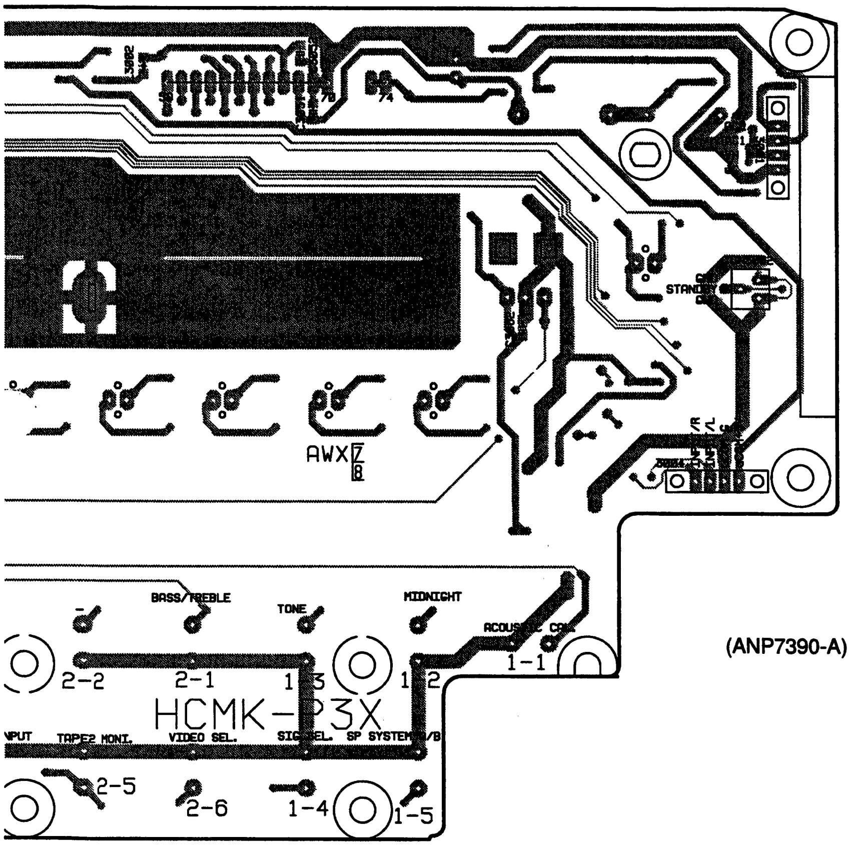
P VOL ASSY


HCMK-P3X
3
2
1
VOL +
VOL -
uCOM G
uCOM+5V
3103

(ANP7390-A)

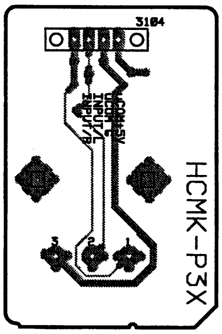
D

SIDE B


BASS/TREBLE
TONE
MIDNIGHT
ACOUSTIC CAL
2-2
2-1
1-3
1-2
1-1
HCMK-P3X
INPUT
TAPE2 MONI.
VIDEO SEL.
SIG SEL.
SP SYSTEM A/B
2-5
2-6
1-4
1-5
AWX 7/8
STANDBY

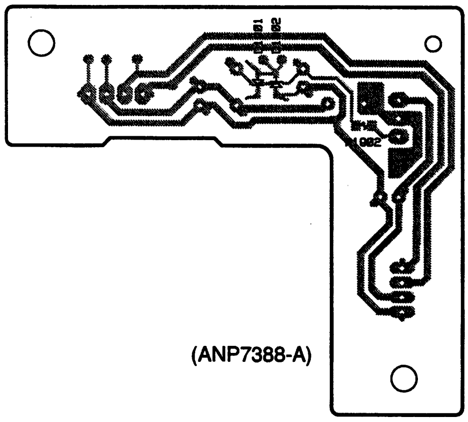
(ANP7390-A)

N INPUT SEL ASSY


3104
HCMK-P3X

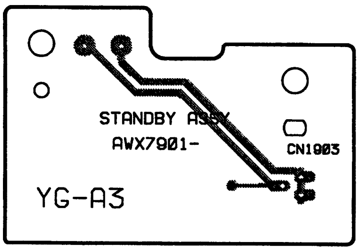
(ANP7390-A)

AE FL SUPPLY ASSY



(ANP7388-A)

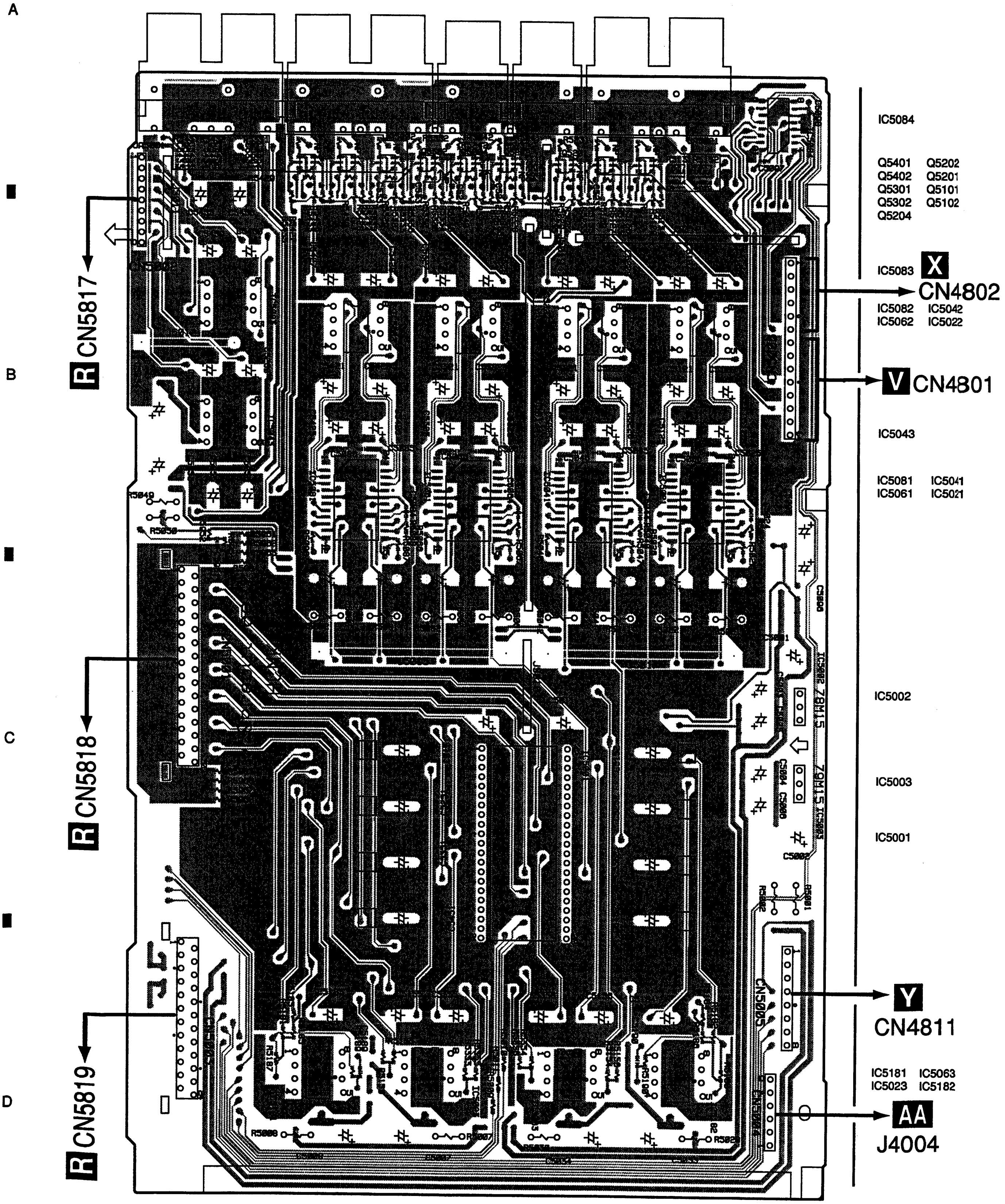
AF STANDBY ASSY


STANDBY ASSY
AWX7901-
CN1903
YG-A3

(ANP7388-A)

4.11 VR & PRE OUT ASSY

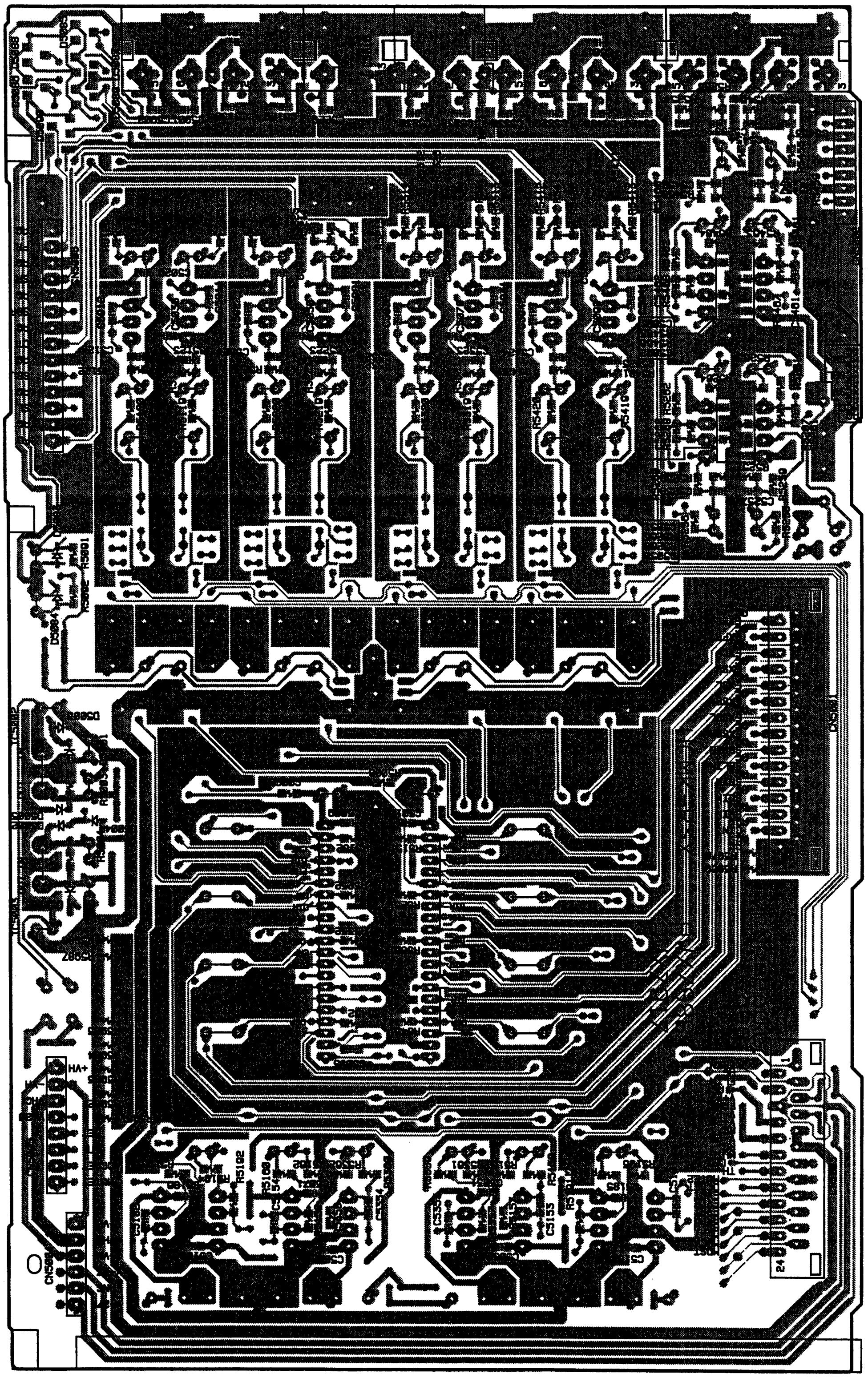
Q VR & PRE OUT ASSY


A
B
C
D
R CN5817
R CN5818
R CN5819
IC5084
Q5401 Q5202
Q5402 Q5201
Q5301 Q5101
Q5302 Q5102
Q5204
IC5083
X CN4802
IC5082 IC5042
IC5062 IC5022
V CN4801
IC5043
IC5081 IC5041
IC5061 IC5021
IC5002
IC5003
IC5001
Y CN4811
IC5181 IC5063
IC5023 IC5182
AA J4004
R5049
R5050
C5008
IC5002 78M15
79M15 IC5003
C5004 C5006
C5002
R5082
R5081
CN5005
CN5004
R5088
R5087
R5022
OUT

(ANP7392-A)

SIDE A

Q VR & PRE OUT ASSY

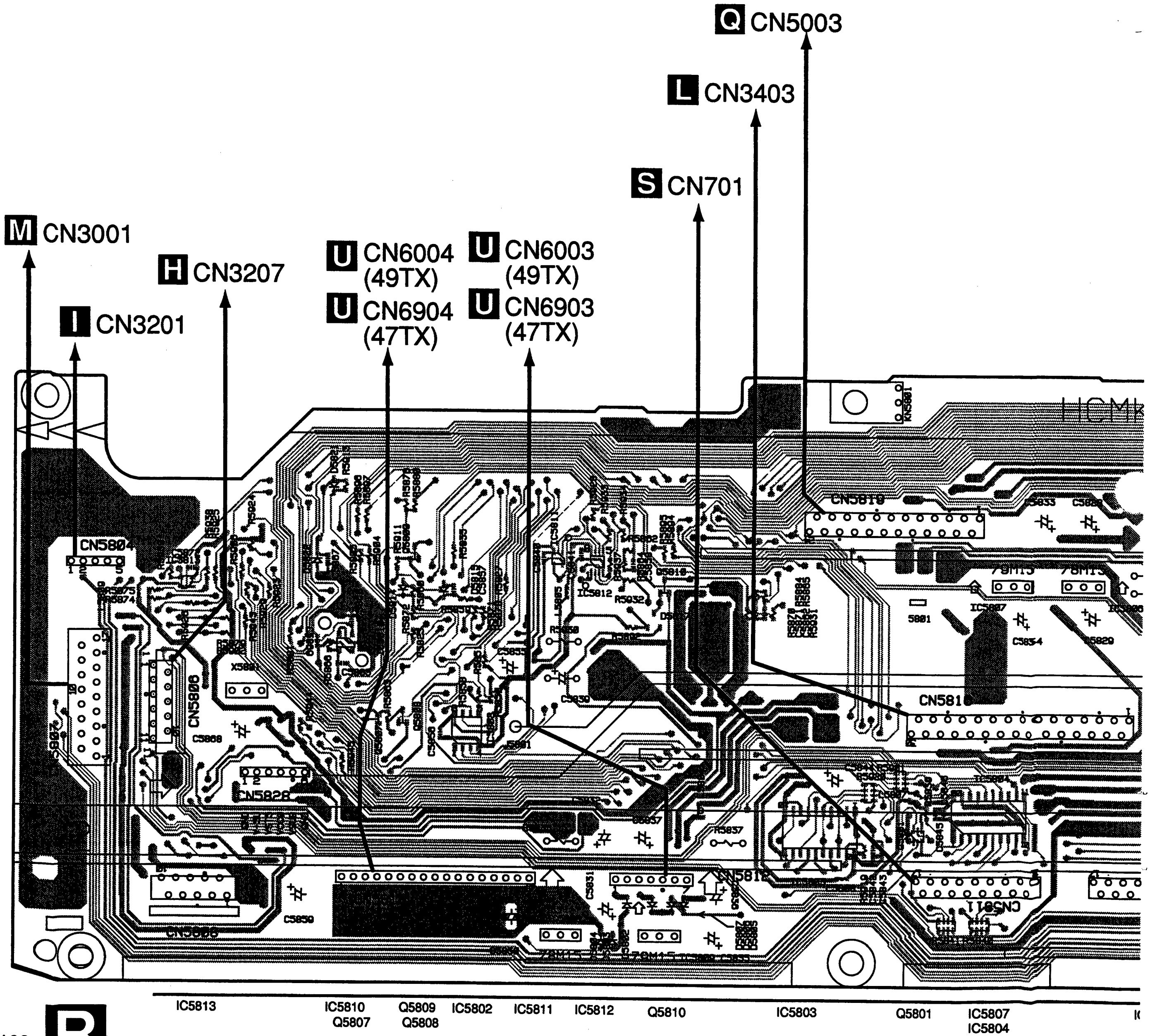


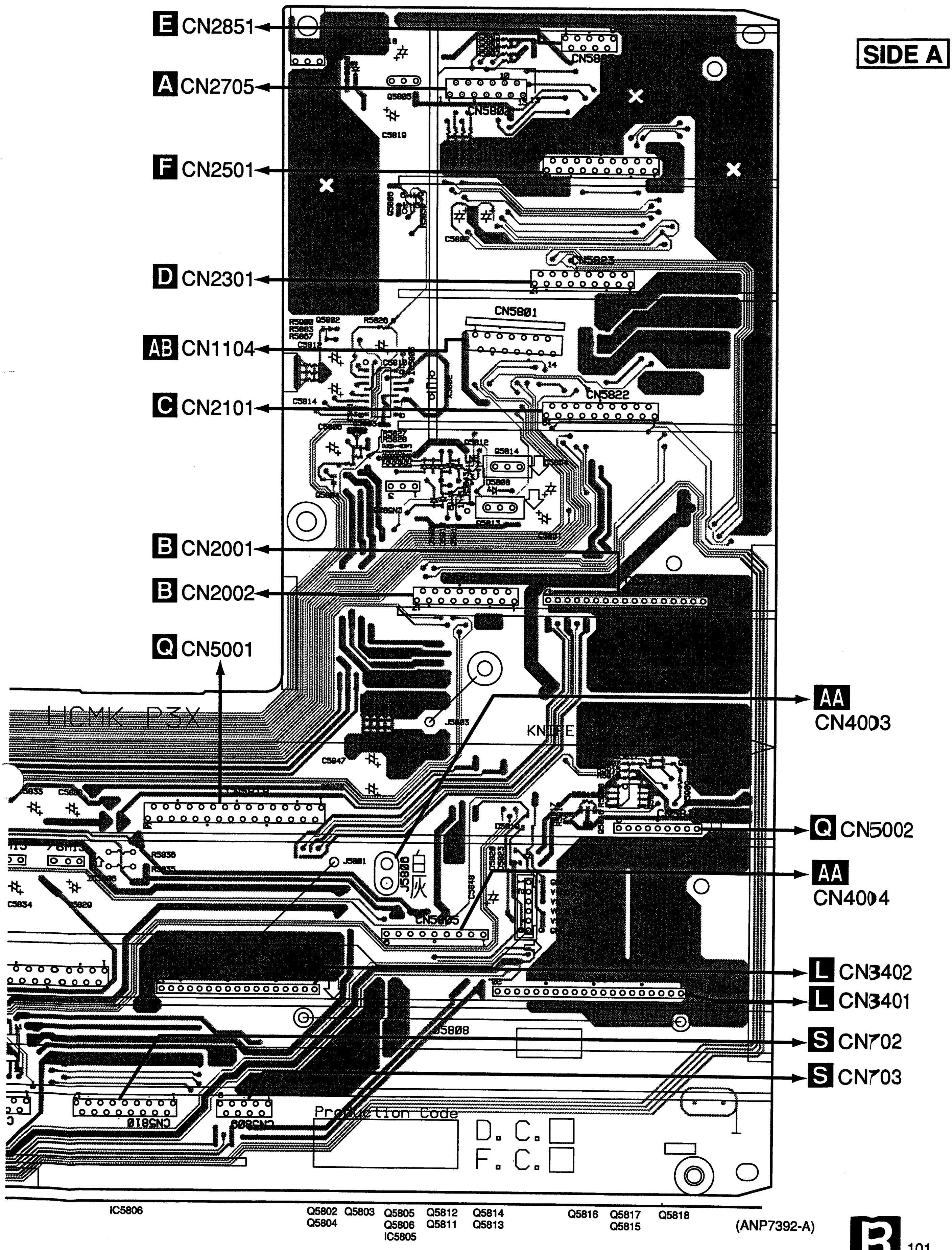
(ANP7392-A)

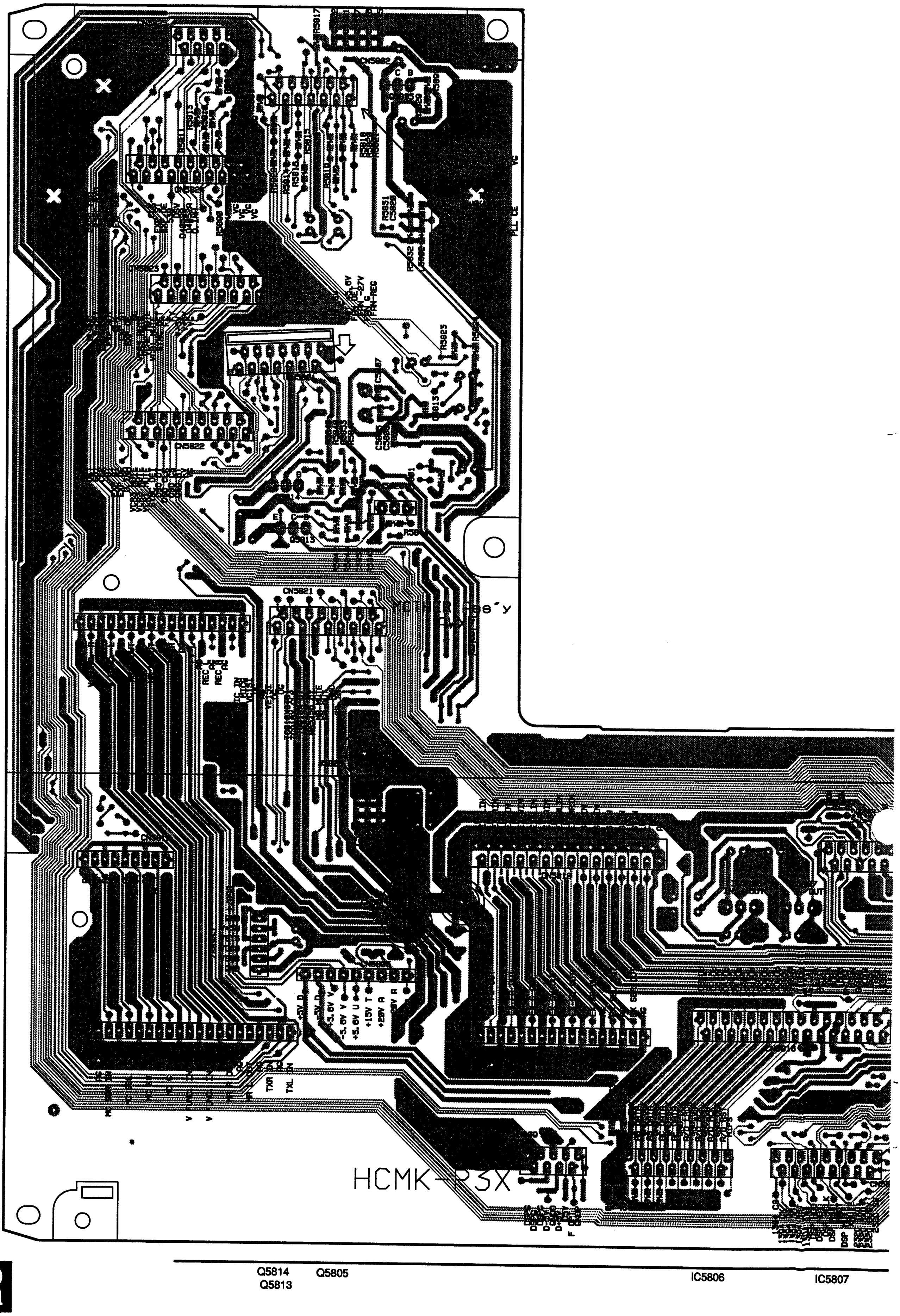
SIDE B

4.12 MOTHER ASSY

R MOTHER ASSY

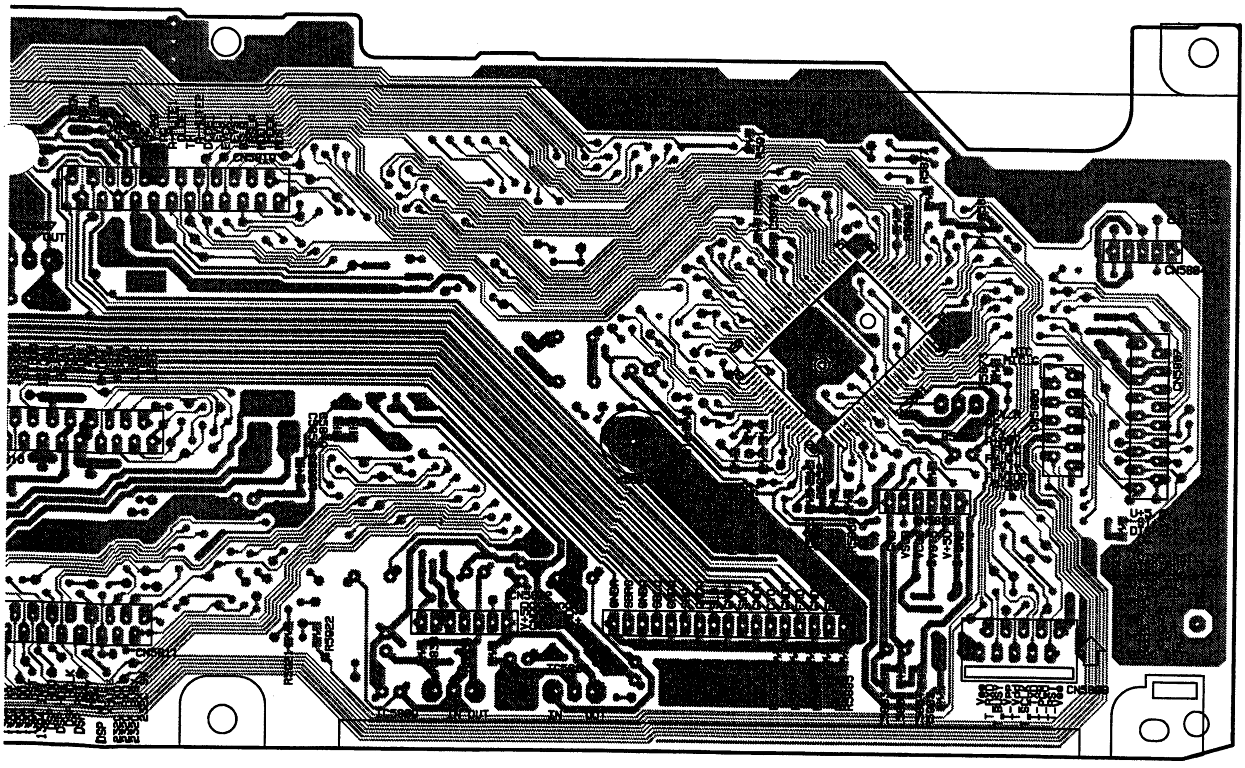

Q CN5003
L CN3403
S CN701
M CN3001
H CN3207
I CN3201
U CN6004 (49TX)
U CN6904 (47TX)
U CN6003 (49TX)
U CN6903 (47TX)
CN5804
CN5806
CN5828
CN5810
CN5816
CN5811
CN5812
CN5808
X5801
IC5812
5801
C5854
C5808
C5859
C5850
R5857
R5832
D5802
D5816
78M15
79M15
IC5807
IC5813
IC5810
Q5807
Q5809
Q5808
IC5802
IC5811
IC5812
Q5810
IC5803
Q5801
IC5807
IC5804


SIDE A
E CN2851
A CN2705
F CN2501
D CN2301
AB CN1104
C CN2101
B CN2001
B CN2002
Q CN5001
AA CN4003
Q CN5002
AA CN4004
L CN3402
L CN3401
S CN702
S CN703
CN5802
CN5804
CN5803
CN5801
CN5822
CN5805
CN5810
CN5806
J5801
J5803
J5806
Q5808
HCMK P3X
KNIFE
Production Code
D. C.
F. C.
IC5806
Q5802
Q5804
Q5803
Q5805
Q5806
IC5805
Q5812
Q5811
Q5814
Q5813
Q5816
Q5817
Q5815
Q5818


A
B
C
D
CN5802
CN5822
CN5823
CN5821
R5823
PLL CE
MOTHER Ass'y
+5V D
-5V D
+5.6V V
-5.6V V
+5.6V U
+15V T
+20V A
TXR
TXL
HCMK-P3X
Q5814
Q5813
Q5805
IC5806
IC5807

SIDE B

R MOTHER ASSY


CN5807
CN5811
R5922
IC5810
IN
OUT
CN5809
U+5
CN5808

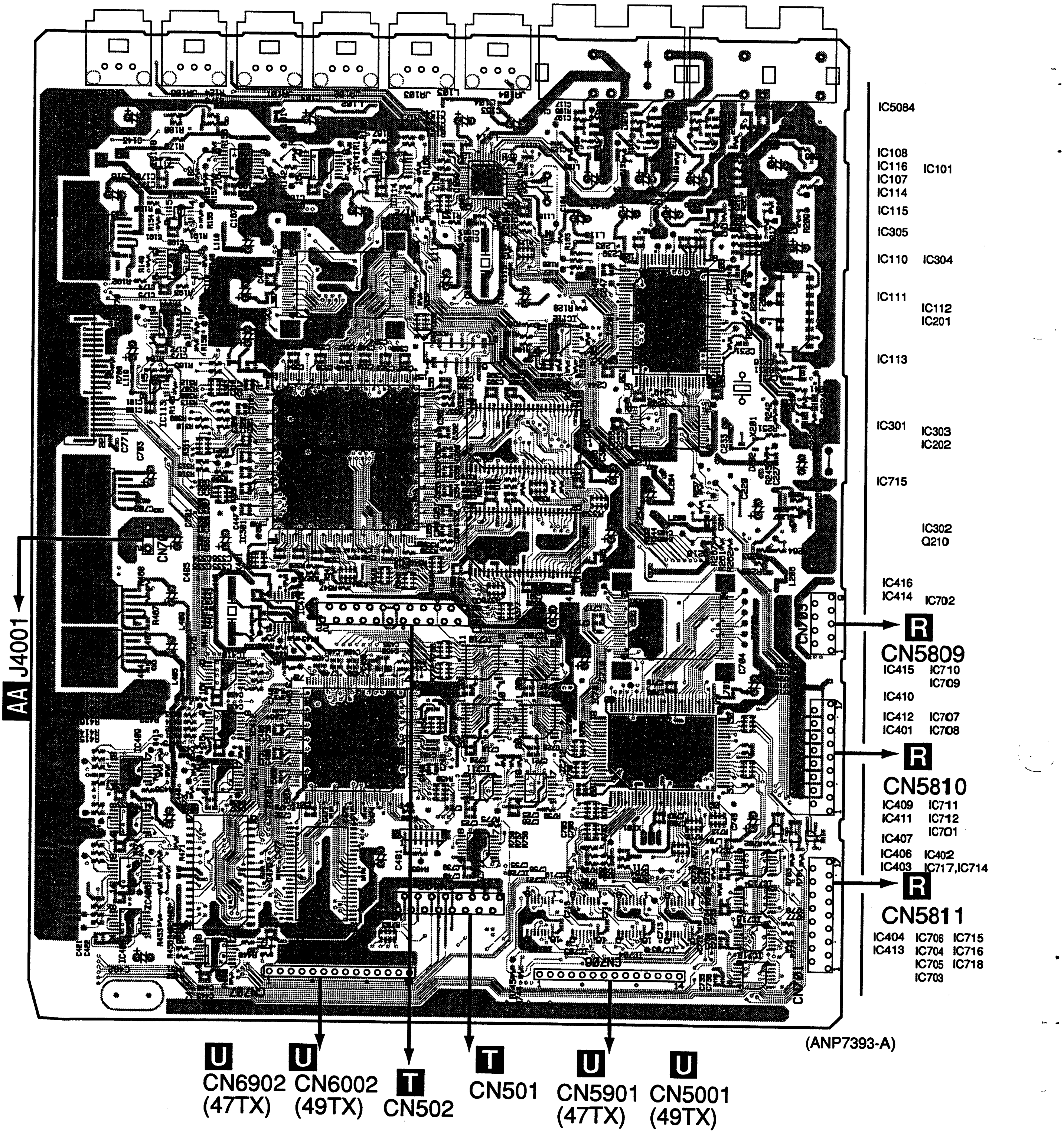
IC5807 IC5809 IC5808 IC5801

(ANP7392-A)

4.13 DSP ASSY

A

S DSP ASSY


IC5084
IC108
IC116 IC101
IC107
IC114
IC115
IC305
IC110 IC304
IC111
IC112
IC201
IC113
IC301 IC303
IC202
IC715
IC302
Q210
IC416
IC414 IC702
R
CN5809
IC415 IC710
IC709
IC410
IC412 IC707
IC401 IC708
R
CN5810
IC409 IC711
IC411 IC712
IC701
IC407
IC406 IC402
IC403 IC717,IC714
R
CN5811
IC404 IC706 IC715
IC413 IC704 IC716
IC705 IC718
IC703
AA J4001
(ANP7393-A)
U CN6902 (47TX)
U CN6002 (49TX)
T CN502
T CN501
U CN5901 (47TX)
U CN5001 (49TX)

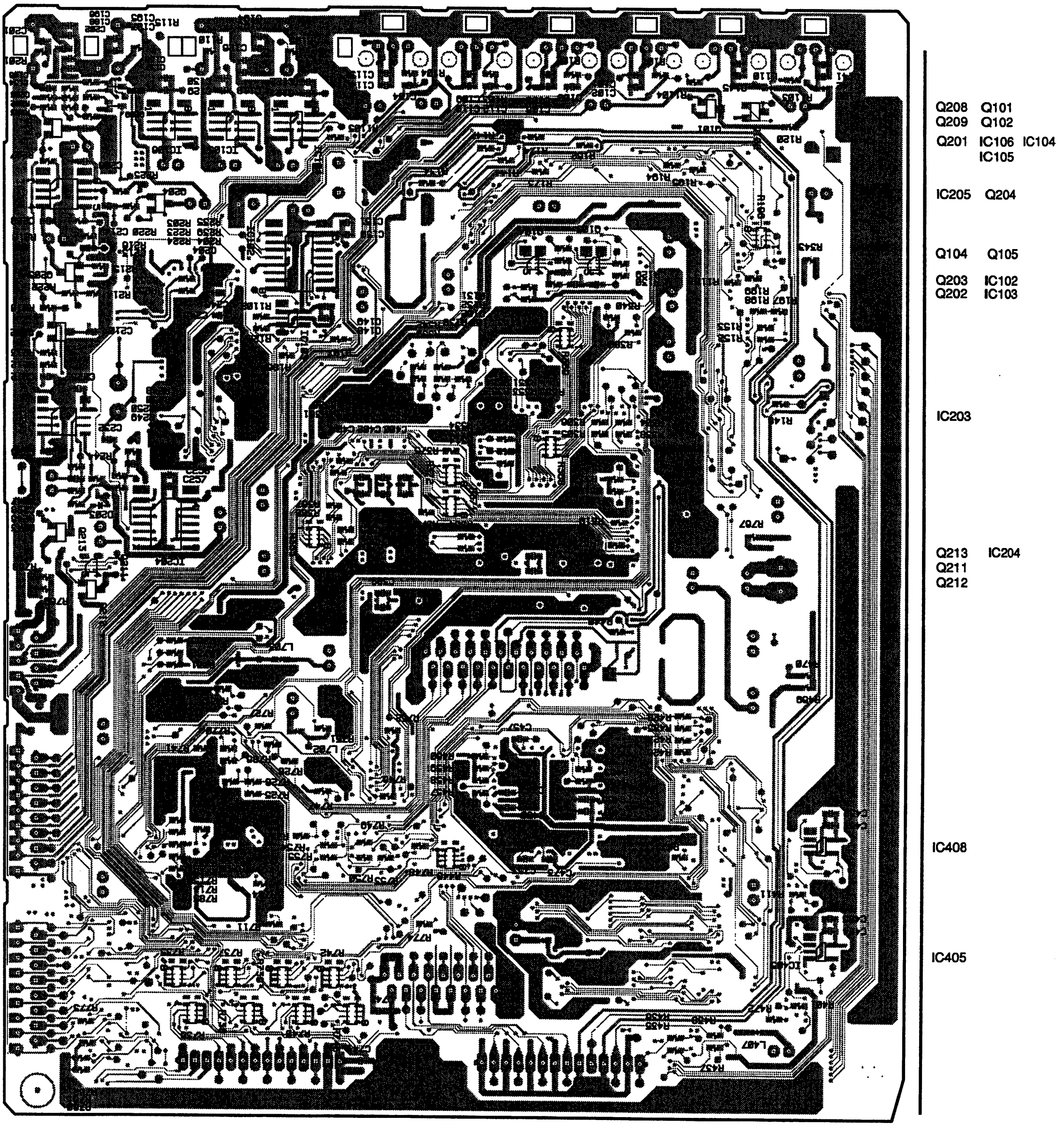
B

C

D

SIDE A

S DSP ASSY

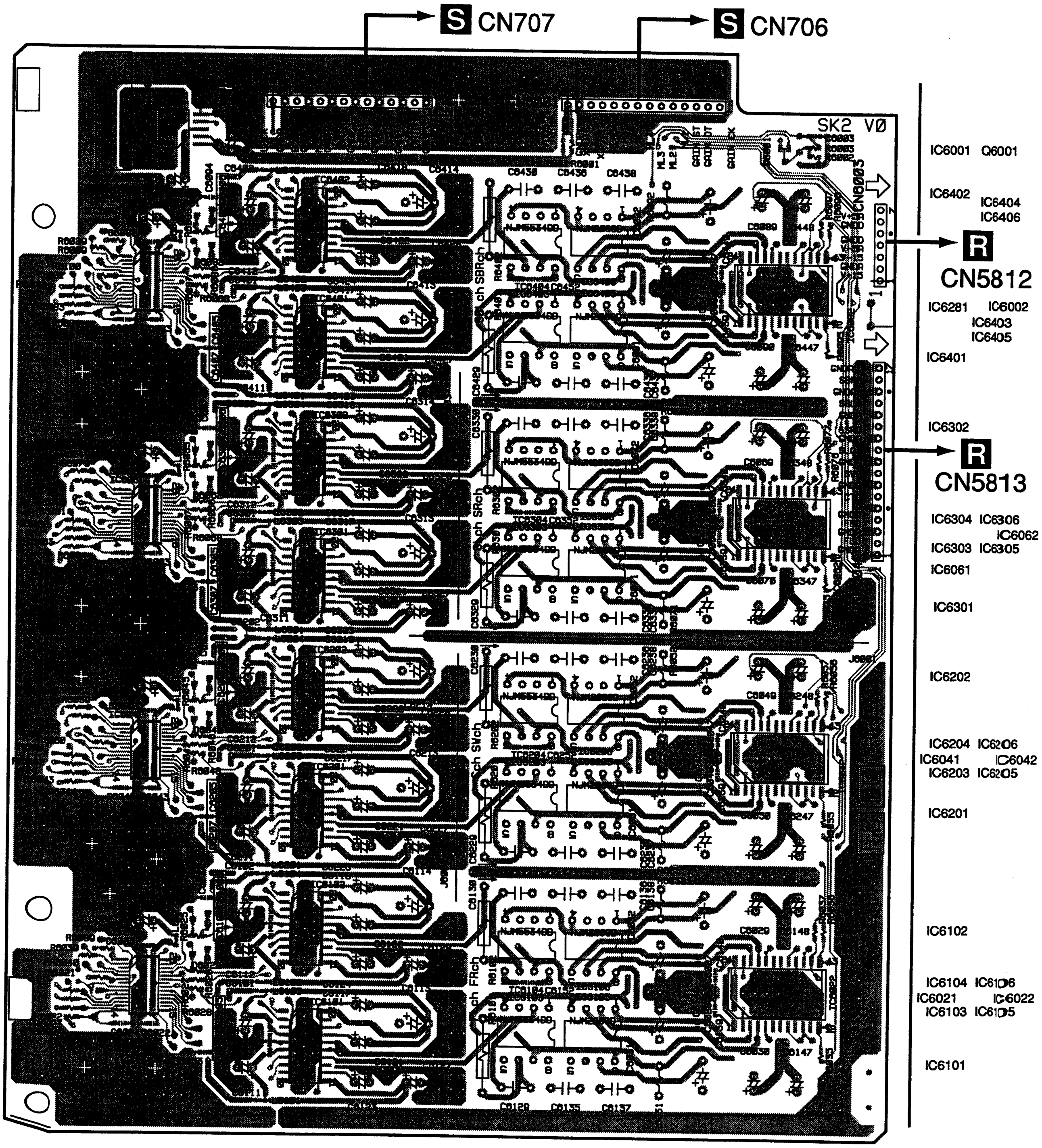

Q208 Q101
Q209 Q102
Q201 IC106 IC104
IC105
IC205 Q204
Q104 Q105
Q203 IC102
Q202 IC103
IC203
Q213 IC204
Q211
Q212
IC408
IC405
A
B
C
D

(ANP7393-A)

SIDE B

4.14 DAC10 ASSY (VSX-49TX ONLY)

U DAC10 ASSY

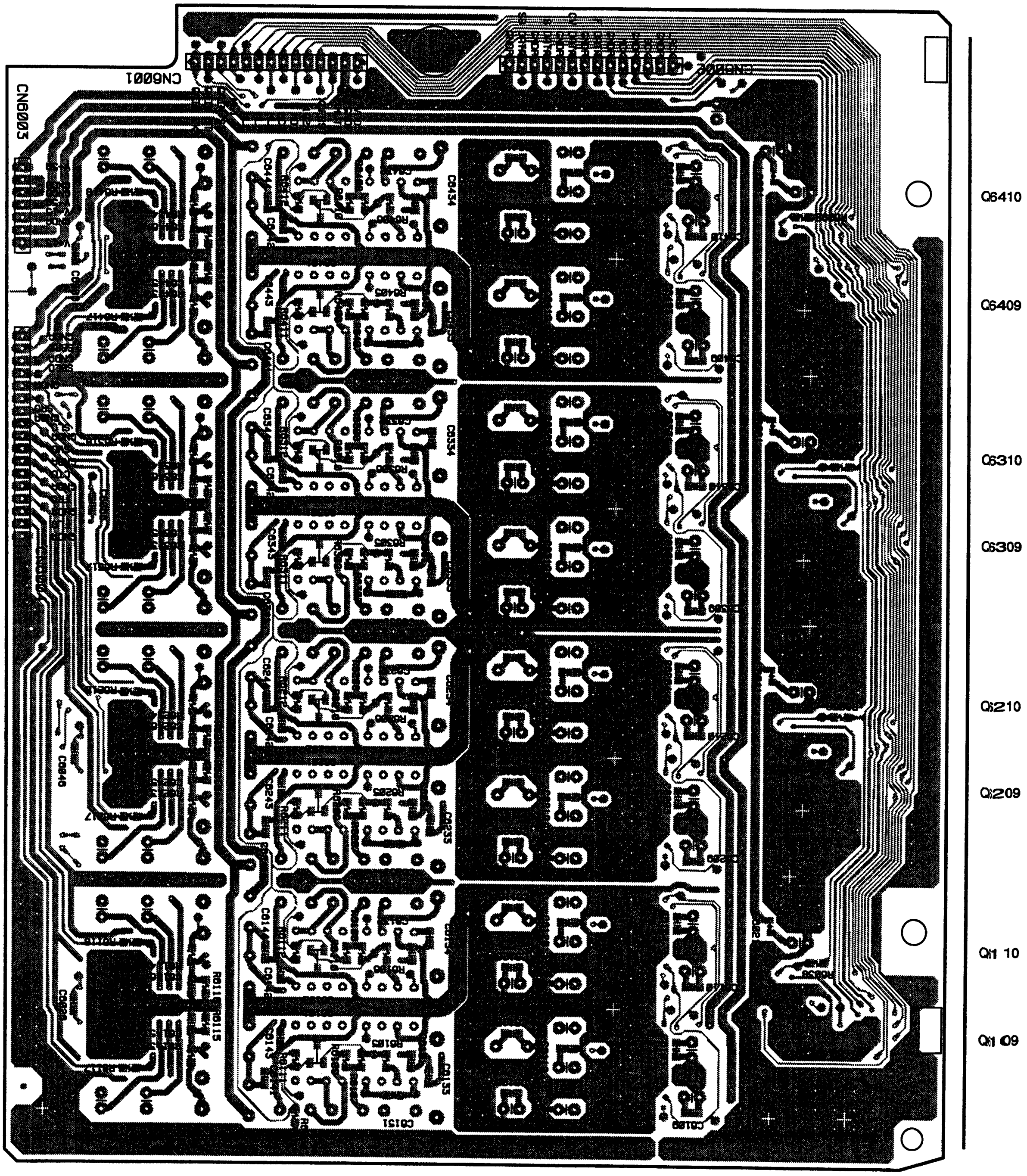

S CN707
S CN706
SK2 V0
CN6003
IC6001 Q6001
IC6402
IC6404
IC6406
R CN5812
IC6281 IC6002
IC6403
IC6405
IC6401
IC6302
R CN5813
IC6304 IC6306
IC6062
IC6303 IC6305
IC6061
IC6301
IC6202
IC6204 IC6206
IC6041 IC6042
IC6203 IC6205
IC6201
IC6102
IC6104 IC6106
IC6021 IC6022
IC6103 IC6105
IC6101
ch SBRch
ch SRch
ch SWch
ch FRch
NJM5534DD
C6129 C6135 C6137

(ANP7394-A)

SIDE A

A

U DAC10 ASSY


CN6001
CN6002
CN6003
C0646
R0116
R0115
C0151
C0135
Q6410
Q6409
Q6310
Q6309
Q6210
Q6209
Q6110
Q6109

B

C

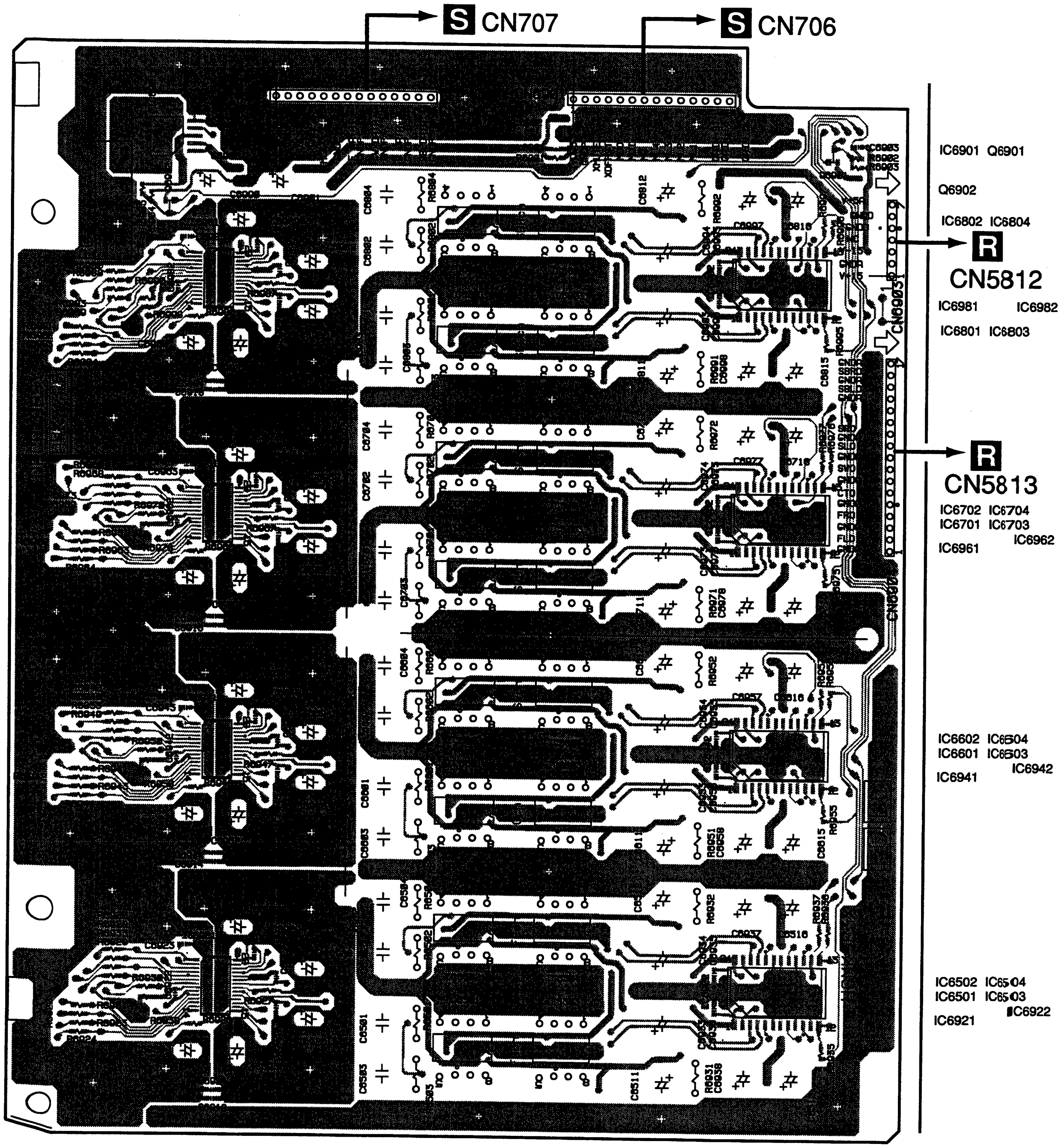
D

(ANP7394-A)

SIDE B

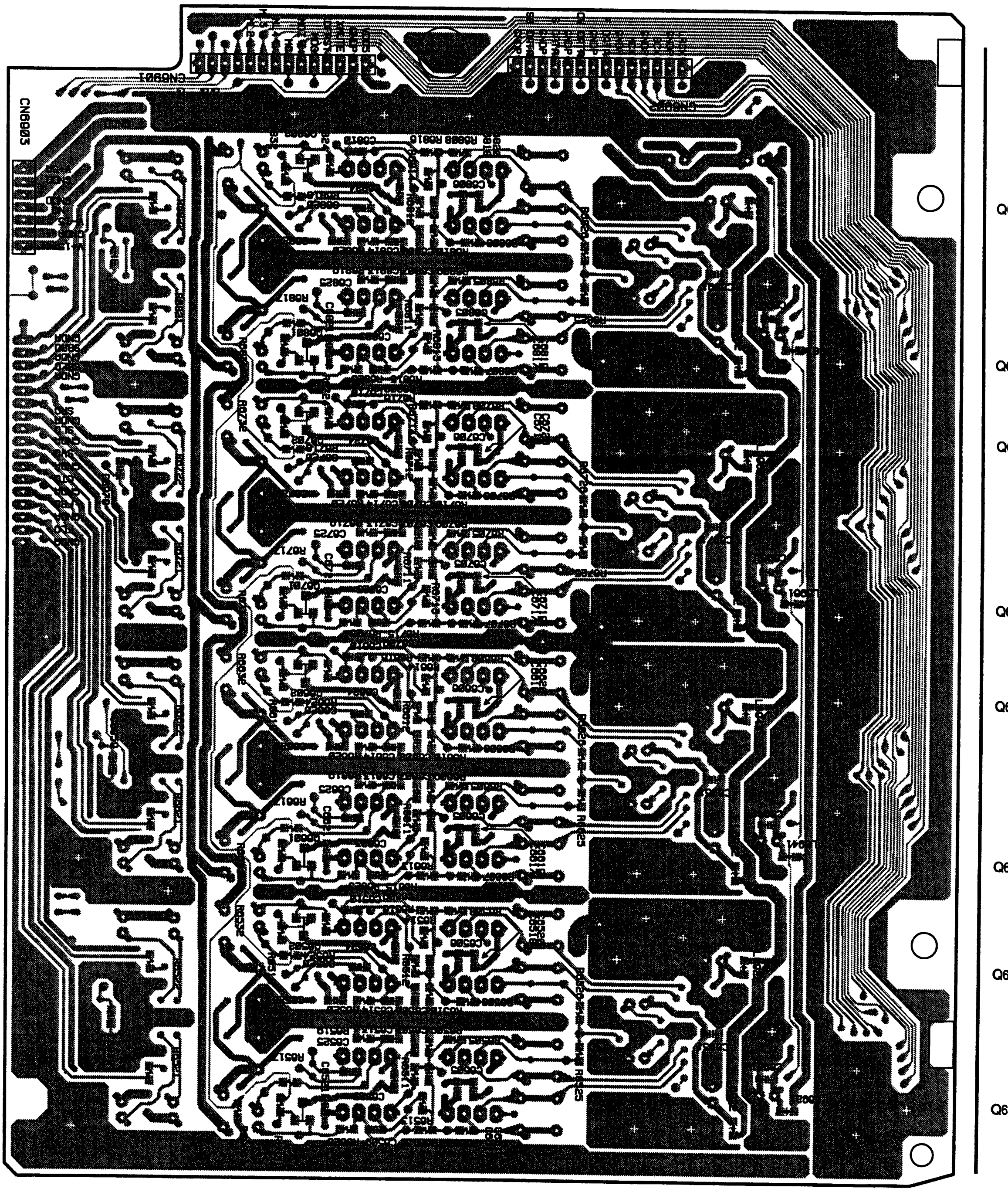
4.15 DAC8 ASSY (VSX-47TX ONLY)

U DAC8 ASSY


S CN707
S CN706
IC6901 Q6901
Q6902
IC6802 IC6804
R
CN5812
IC6981 IC6982
IC6801 IC6803
R
CN5813
IC6702 IC6704
IC6701 IC6703
IC6962
IC6961
IC6602 IC6504
IC6601 IC6503
IC6942
IC6941
IC6502 IC6504
IC6501 IC6503
IC6922
IC6921

(ANP7416-A)

U DAC8 ASSY


CN6901
CN6903
Q6802
Q6801
Q6702
Q6701
Q6602
Q6601
Q6502
Q6501

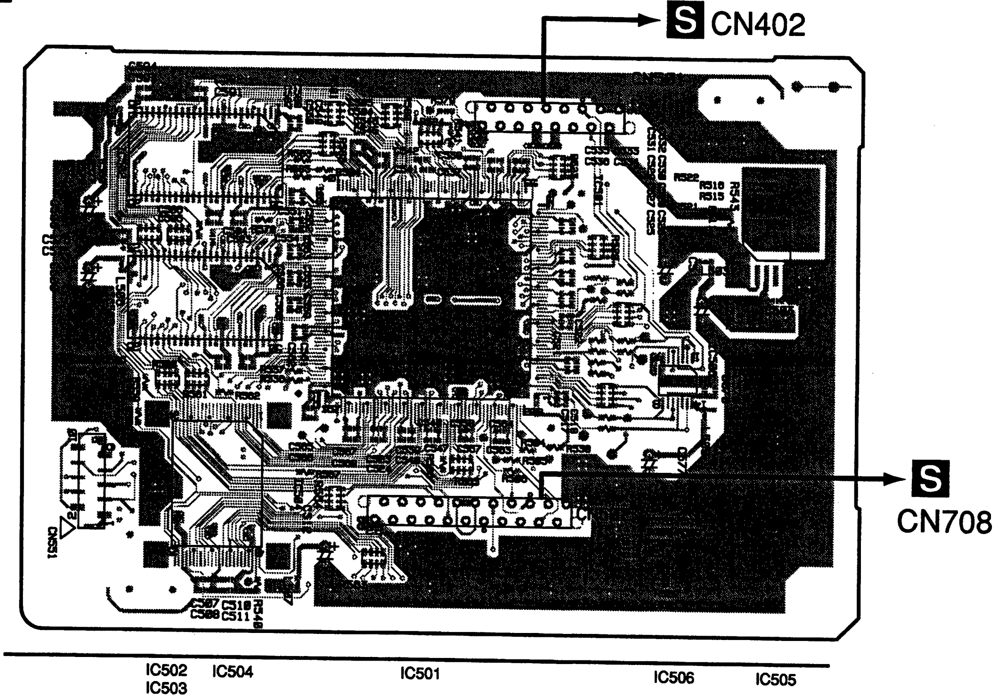
(ANP7416-A)

SIDE B

4.16 DSP3 ASSY (VSX-49TX ONLY)

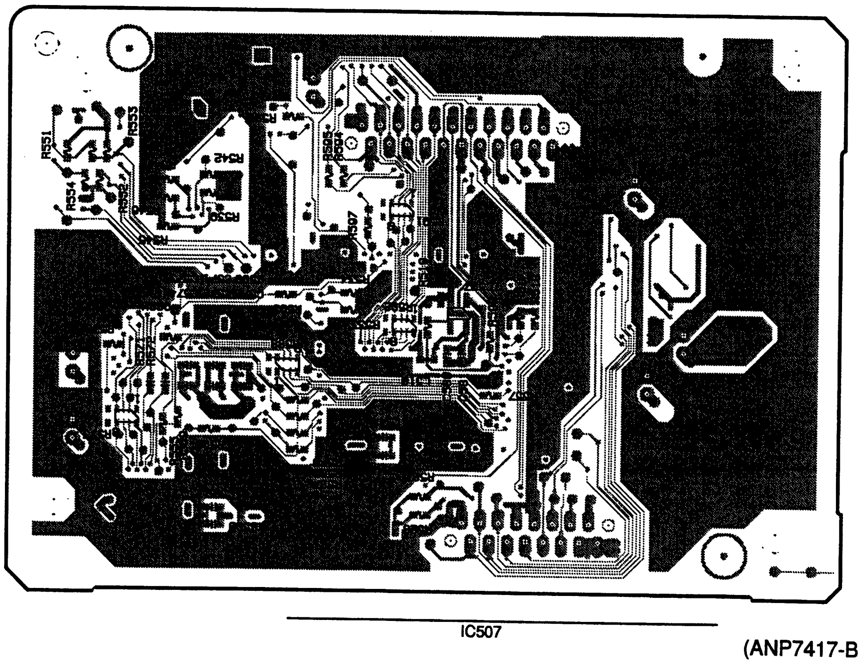
T DSP3 ASSY

SIDE A


S CN402
S CN708
CN551
C507 C510
C508 C511
R548
R522
R516
R515
R543
IC502
IC503
IC504
IC501
IC506
IC505

(ANP7417-B)

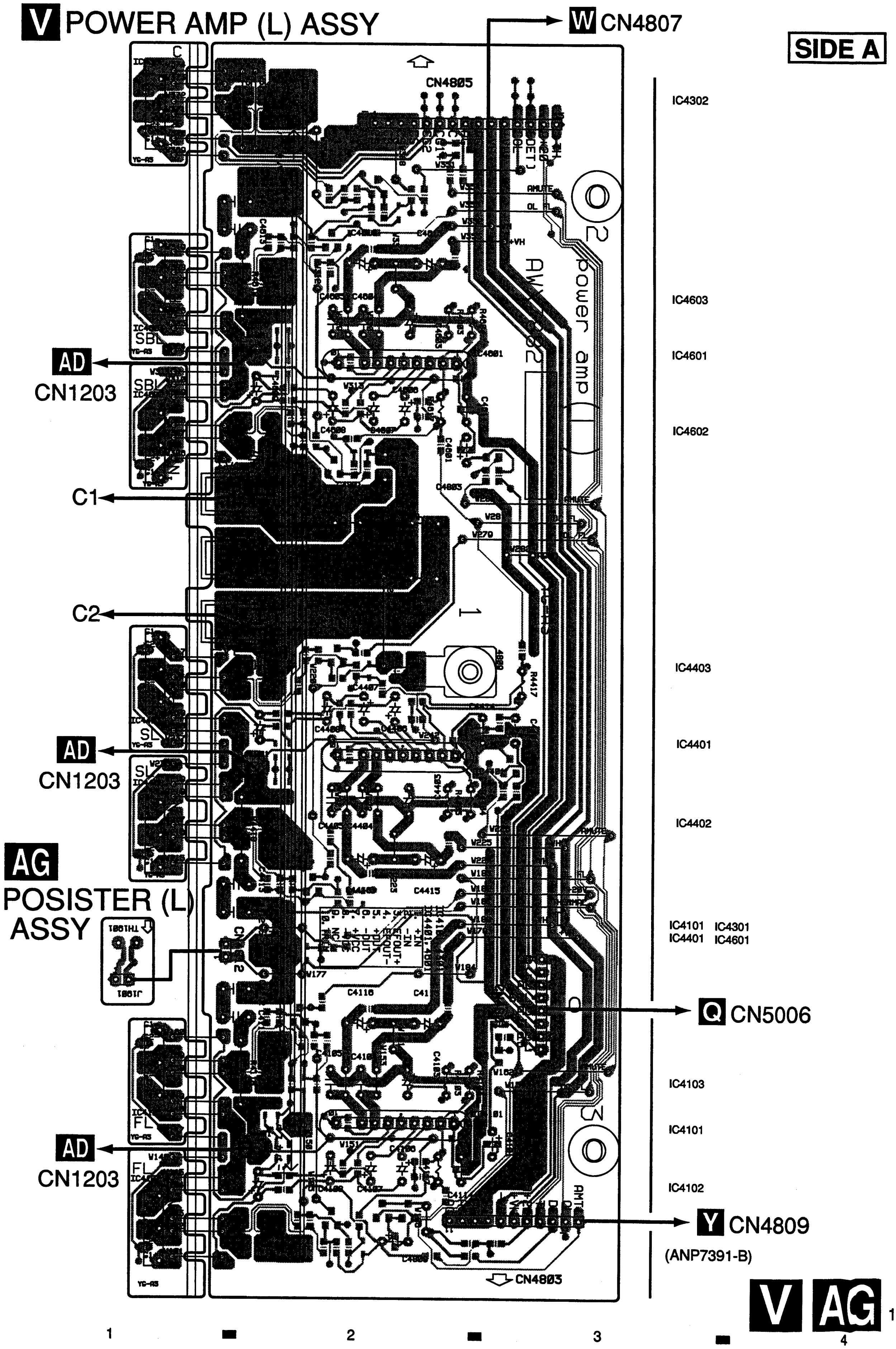
SIDE B


R551
R553
R554
R542
IC507

(ANP7417-B)

4.17 POWER AMP (L) and POSISTER (L) ASSYS

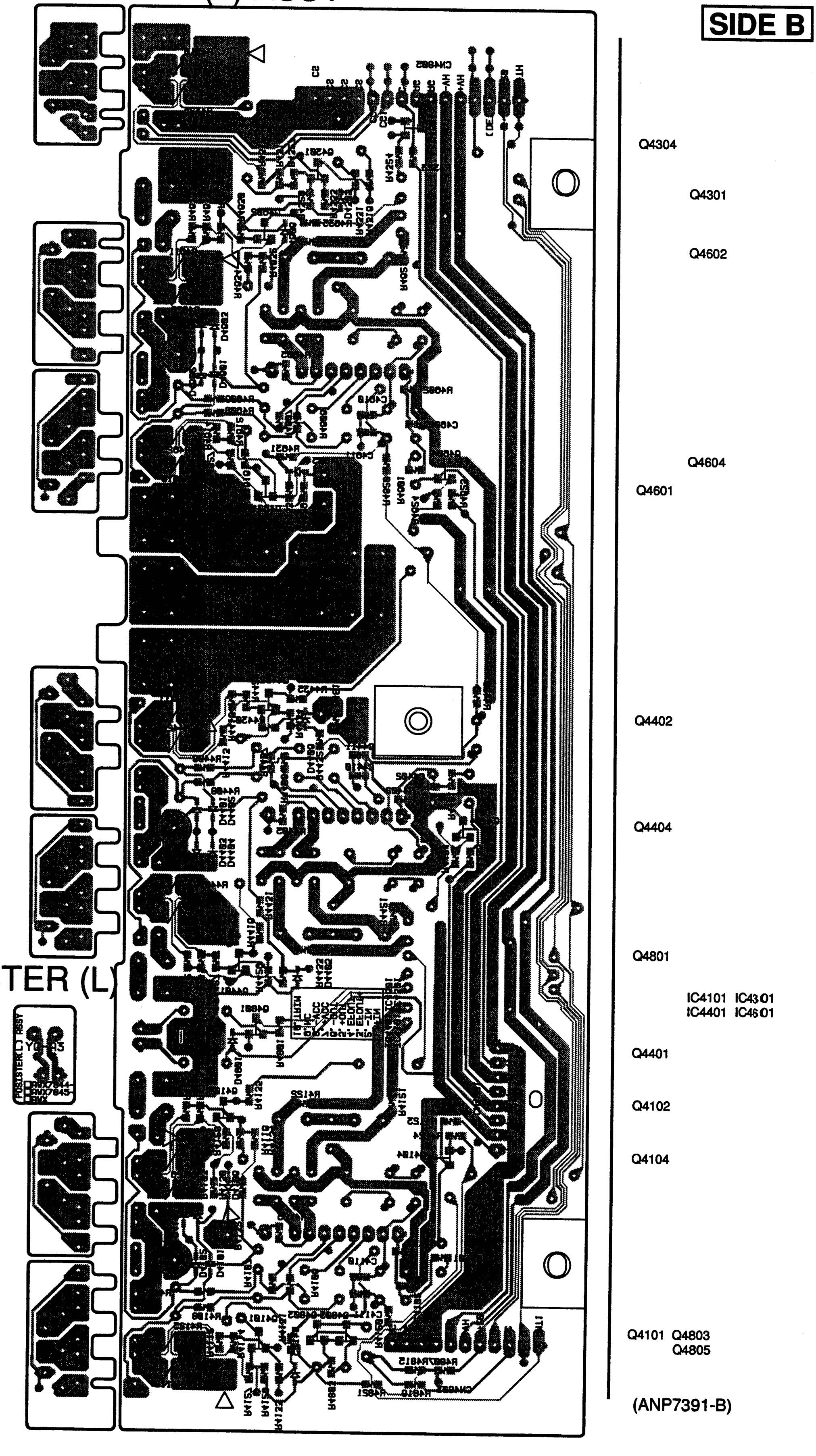
V POWER AMP (L) ASSY


W CN4807
SIDE A
CN4805
IC4302
AMUTE
OL
+VH
power amp
IC4603
IC4601
IC4602
C4801
C4803
AD
CN1203
SBL
C1
C2
R4417
IC4403
IC4401
IC4402
SL
AD
CN1203
AG
POSISTER (L)
ASSY
TH1901
J1901
C4415
C4116
IC4101 IC4301
IC4401 IC4601
Q CN5006
IC4103
IC4101
IC4102
AD
CN1203
FL
AMT
Y CN4809
(ANP7391-B)
CN4803
YG-RS

A
B
C
D

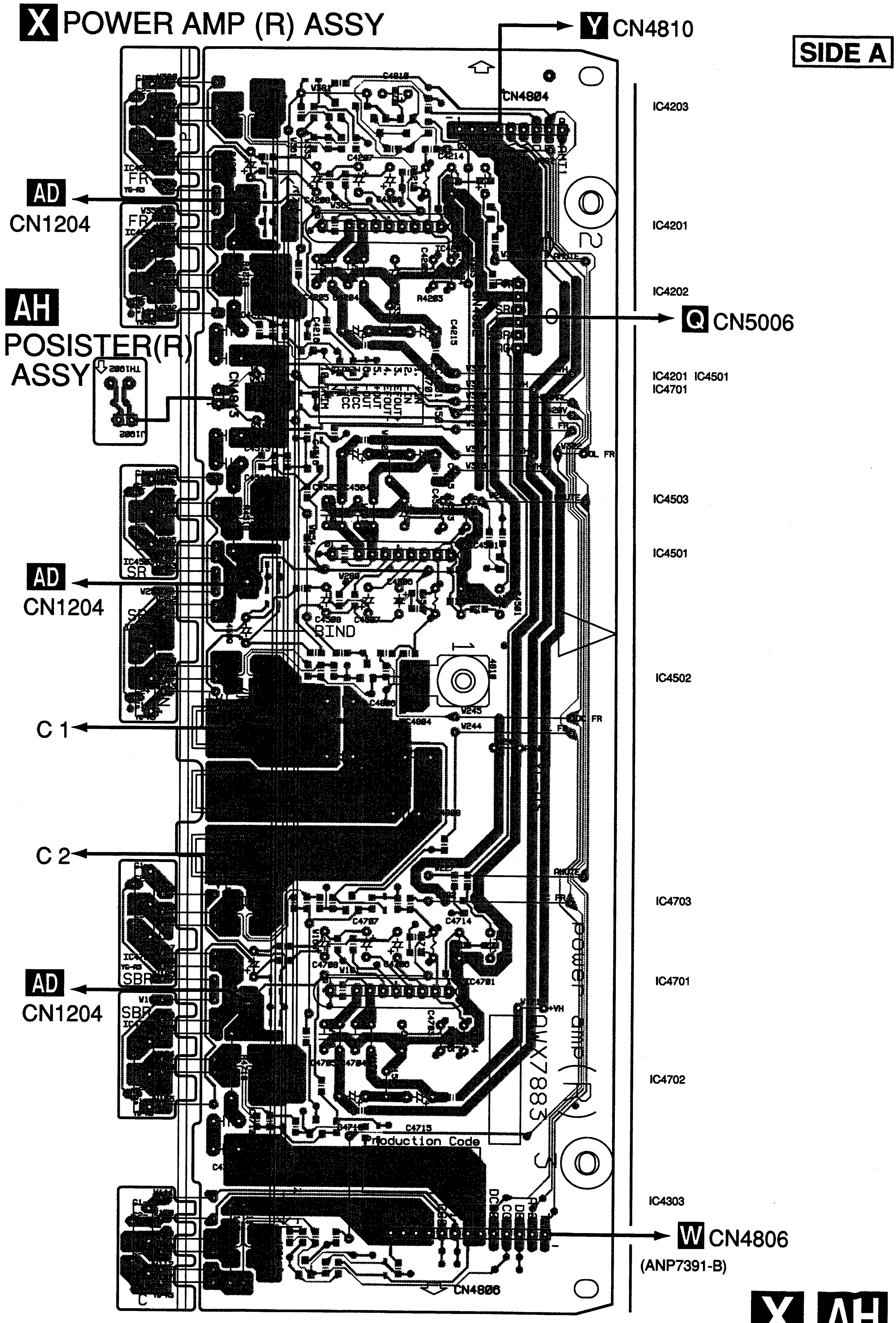
V POWER AMP (L) ASSY

SIDE B


AG
POSISTER (L) ASSY
Q4304
Q4301
Q4602
Q4604
Q4601
Q4402
Q4404
Q4801
IC4101 IC4301
IC4401 IC4601
Q4401
Q4102
Q4104
Q4101 Q4803
Q4805
A
B
C
D
1
2
3
4

(ANP7391-B)

4.18 POWER AMP (R) and POSISTER (R)ASSYS


X POWER AMP (R) ASSY
Y CN4810
SIDE A
CN4804
IC4203
AD
CN1204
IC4201
IC4202
AH
POSISTER(R)
ASSY
Q CN5006
IC4201 IC4501
IC4701
IC4503
AD
CN1204
IC4501
BIND
IC4502
C 1
C 2
IC4703
AD
CN1204
IC4701
Power amp (R)
ANX7883
IC4702
Production Code
IC4303
W CN4806
(ANP7391-B)
CN4806
A
B
C
D

X POWER AMP (R) ASSY

SIDE B

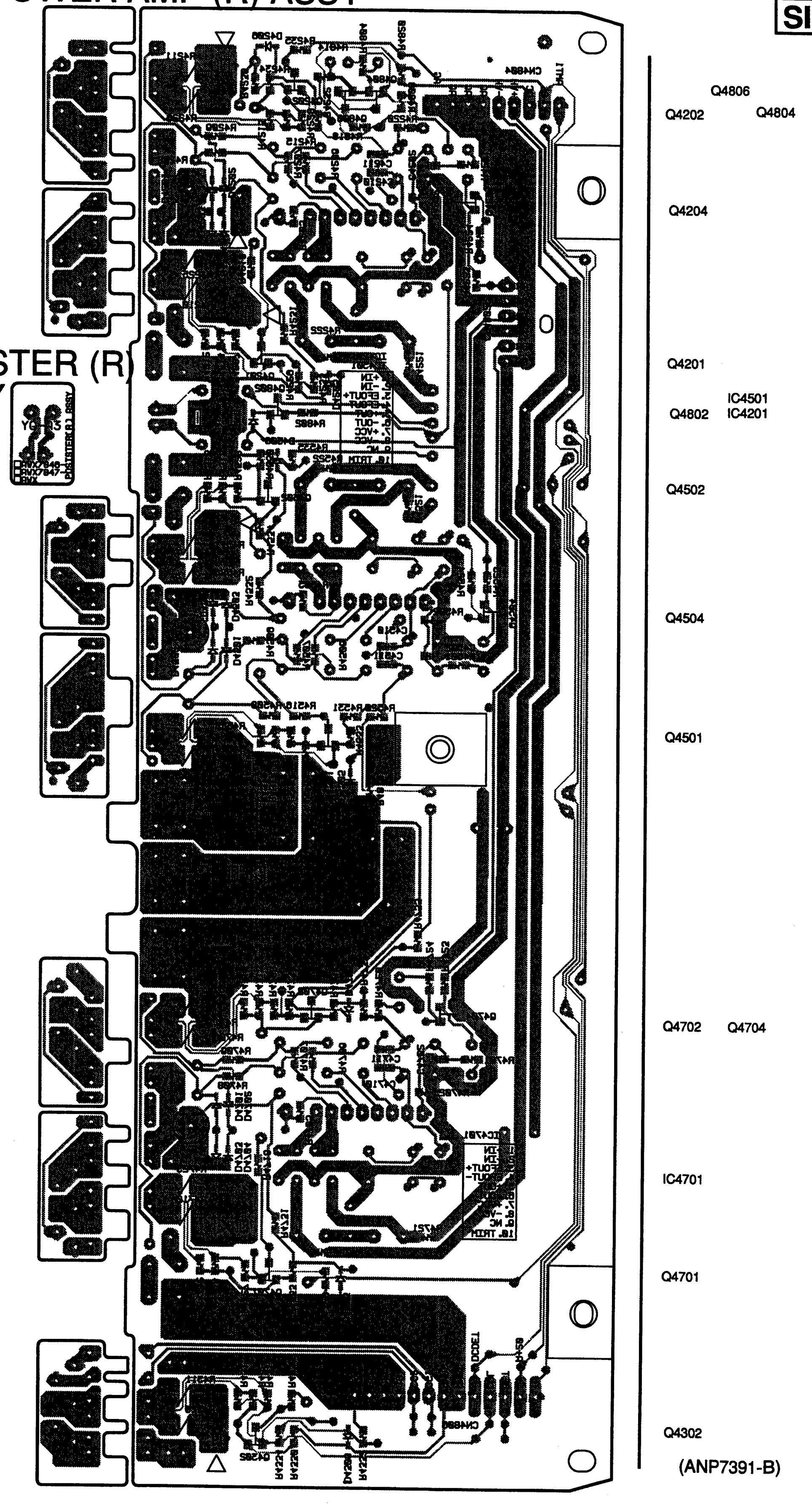
A

AH POSISTER (R) ASSY

B

C

D

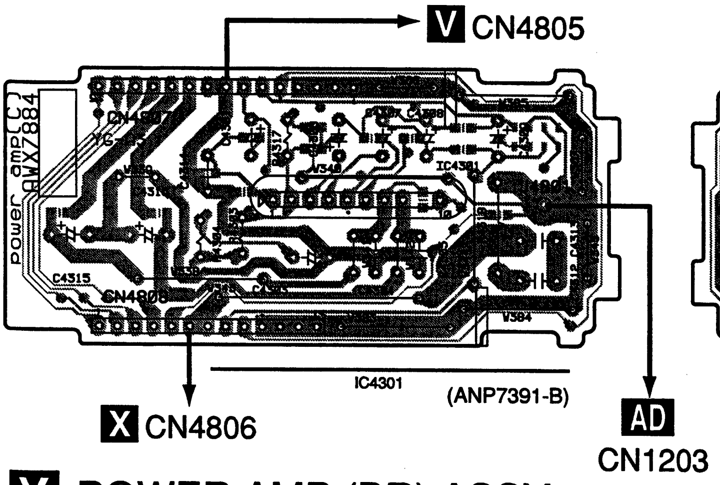

YG-43
POSISTER (R) ASSY
Q4806
Q4202
Q4804
Q4204
Q4201
IC4501
Q4802
IC4201
Q4502
Q4504
Q4501
Q4702
Q4704
IC4701
Q4701
Q4302

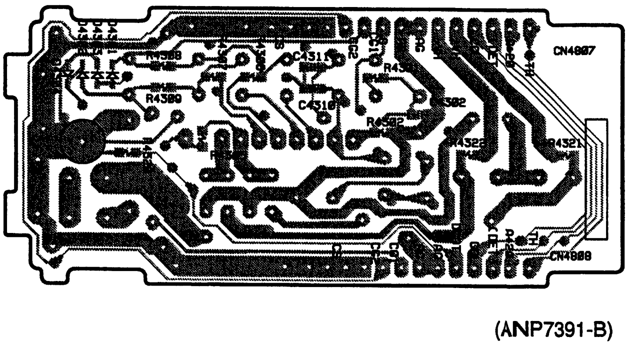
(ANP7391-B)

4.19 POWER AMP (C), POWER AMP (BR) and POWER AMP (G) ASSYS

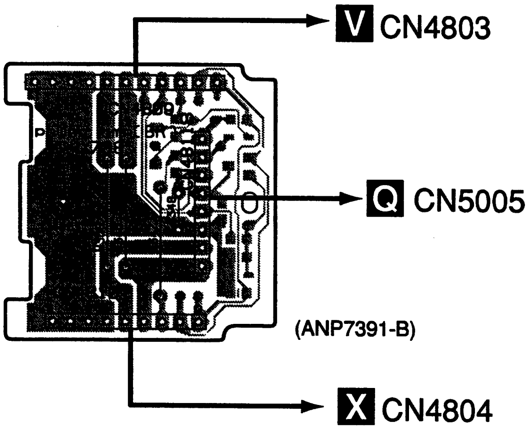
W POWER AMP (C) ASSY

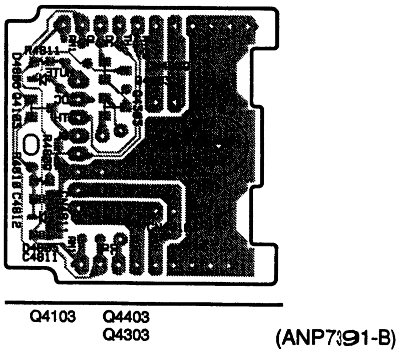
SIDE B


V CN4805
power amp (C)
AWX7884
CN4807
C4315
CN4808
IC4301
V384
IC4301
(ANP7391-B)
X CN4806
AD
CN1203

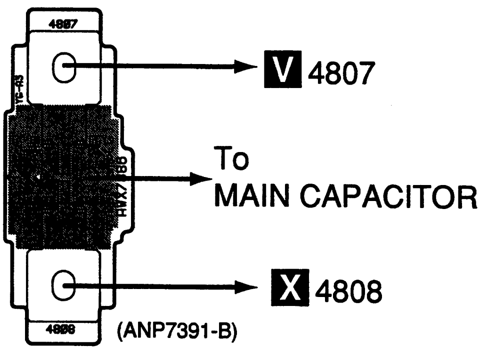

CN4807
R4388
R4390
C4311
C4310
R4322
R4321
CN4808
(ANP7391-B)

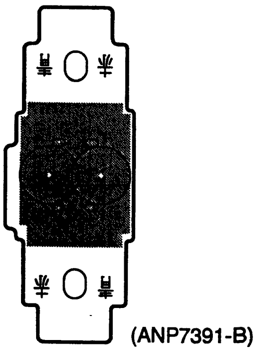
Y POWER AMP (BR) ASSY


V CN4803
Q CN5005
(ANP7391-B)
X CN4804


R4811
C4811
C4812
Q4103
Q4403
Q4303
(ANP7391-B)

Z POWER AMP (G) ASSY

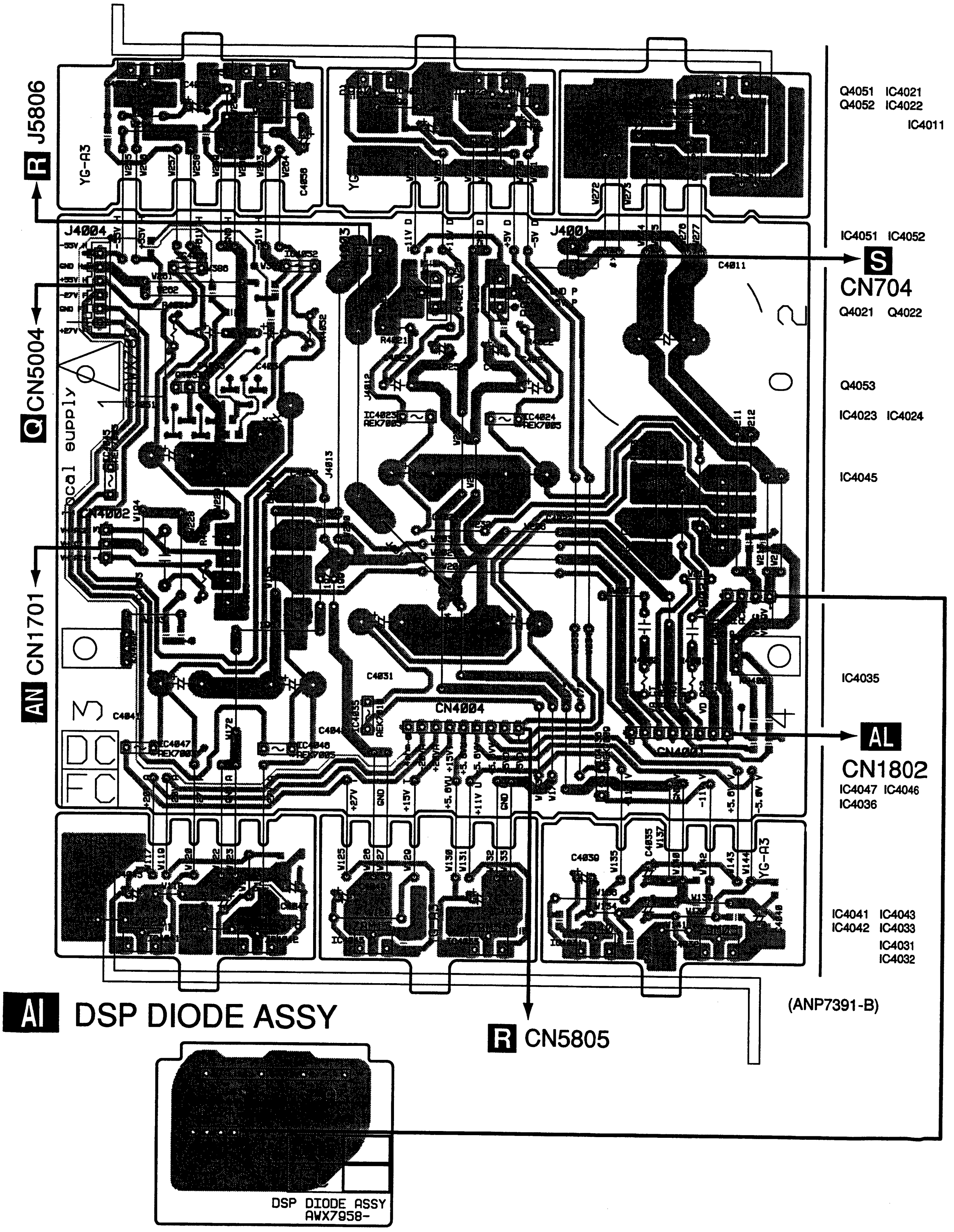

4807
V 4807
To
MAIN CAPACITOR
AWX7886
4808
X 4808
(ANP7391-B)



SIDE A

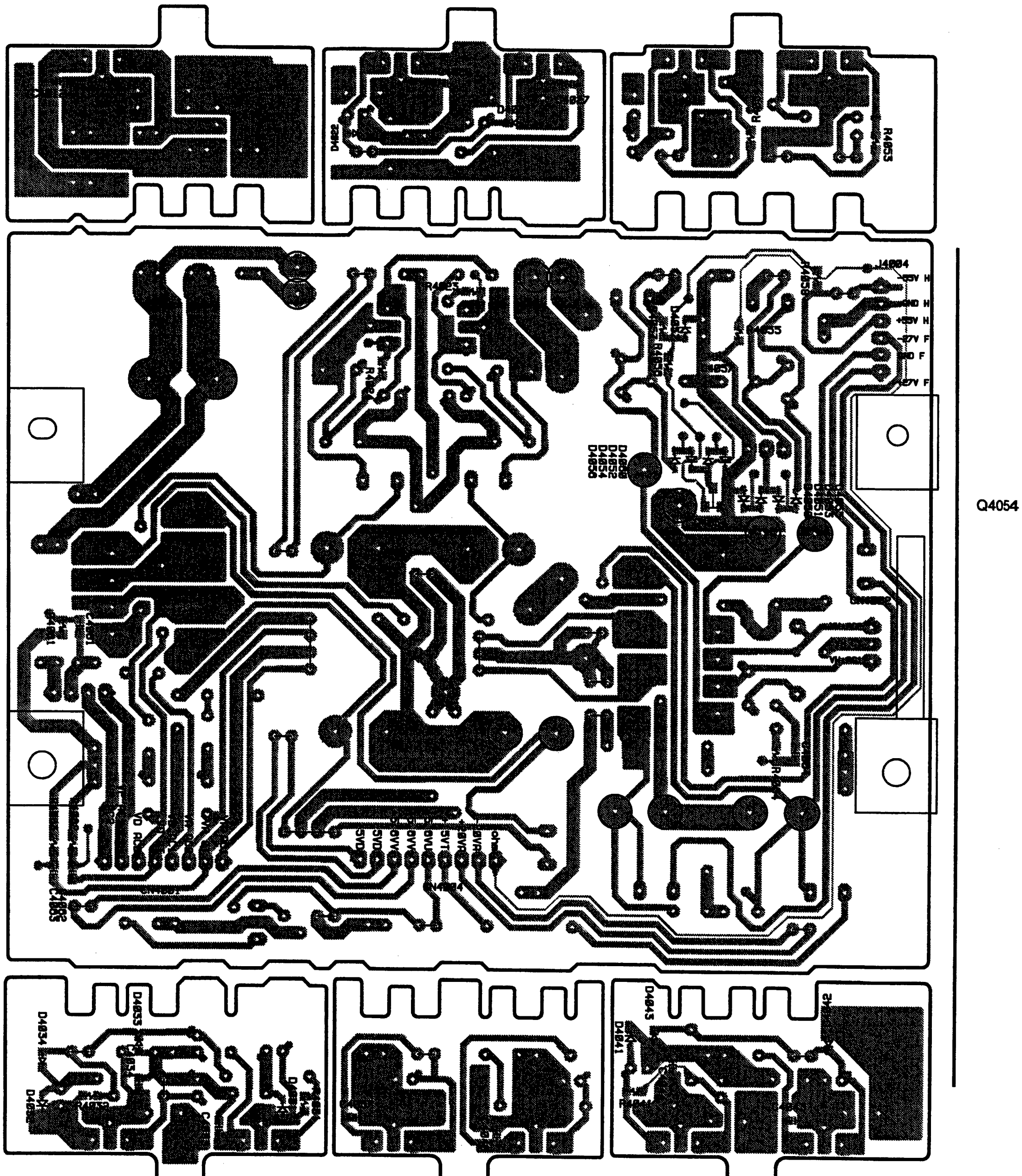
4.20 LOCAL SUPPLY and DSP DIODE ASSYS

AA LOCAL SUPPLY ASSY


A
B
C
D
R J5806
Q CN5004
AN CN1701
S CN704
AL CN1802
R CN5805
J4004
J4001
J4002
CN4004
CN4001
C4011
C4031
C4030
local supply
YG-A3
DC
FC
Q4051 IC4021
Q4052 IC4022
IC4011
IC4051 IC4052
Q4021 Q4022
Q4053
IC4023 IC4024
IC4045
IC4035
IC4047 IC4046
IC4036
IC4041 IC4043
IC4042 IC4033
IC4031
IC4032
(ANP7391-B)
+27V
GND
+15V
+5.0V
+11V
-11V
-5.0V
+5V D
-5V D
+11V D
AI DSP DIODE ASSY
DSP DIODE ASSY
AWX7958-

A

AA LOCAL SUPPLY ASSY

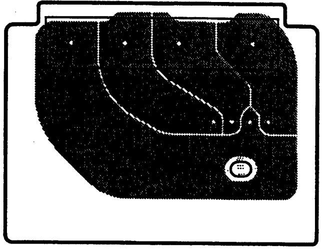

Q4054
J4804
R4853
D4852
D4854
D4856
C4883

B

C

AI DSP DIODE ASSY

(ANP7391-B)



D

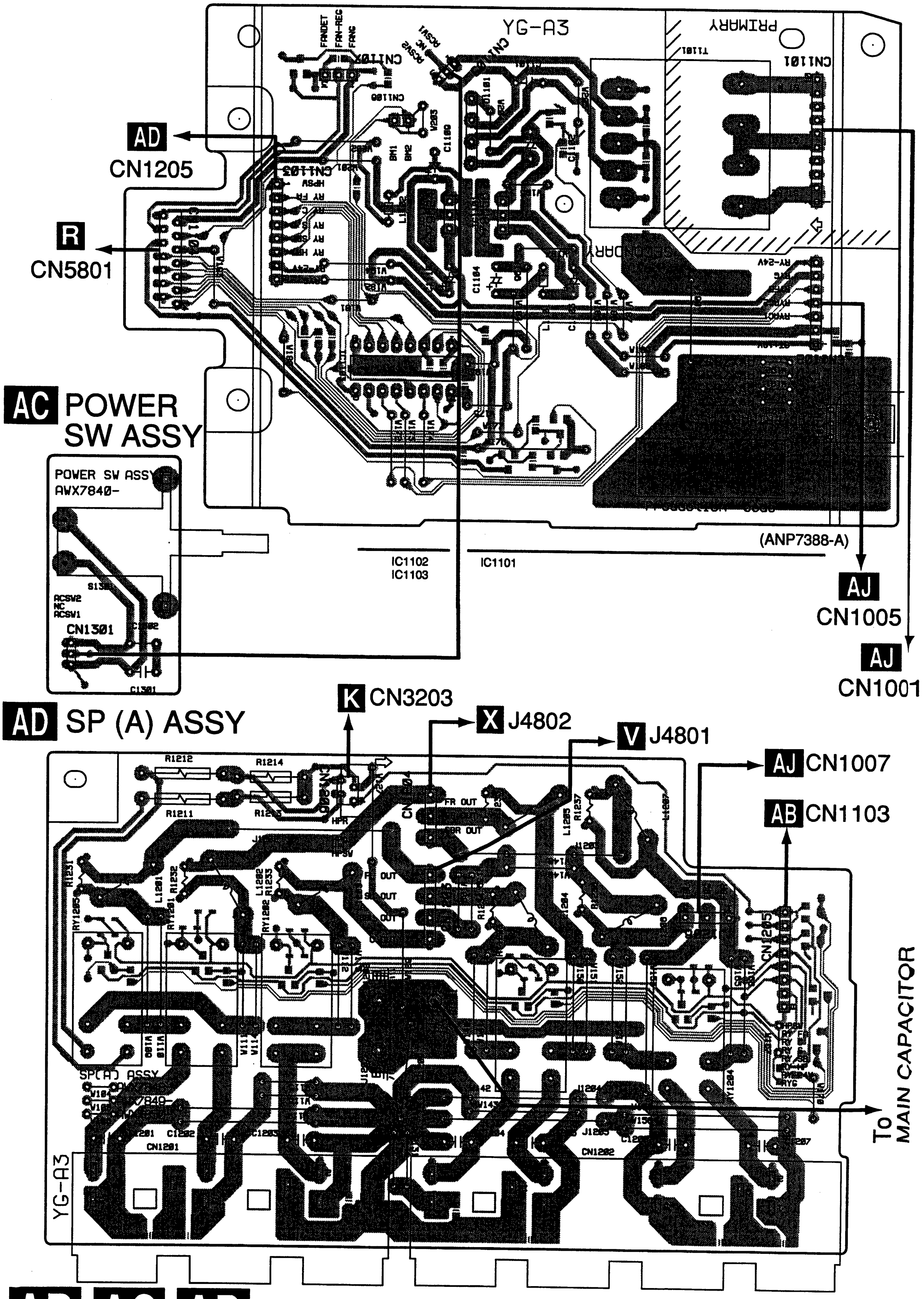
SIDE B

4.21 AC PRIMARY, POWER SW and SP (A) ASSYS

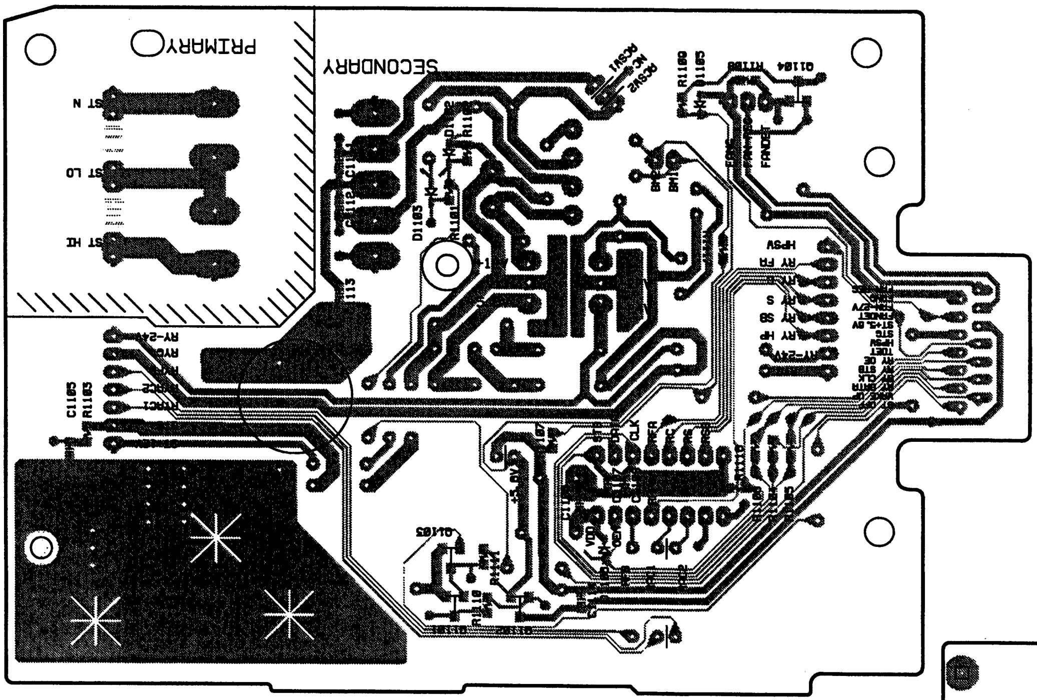
AB AC PRIMARY ASSY

AC POWER SW ASSY

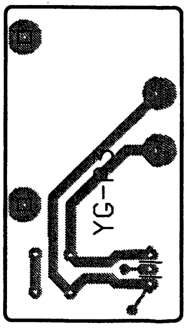
AD SP (A) ASSY


YG-A3
PRIMARY
CN101
T101
CN1100
CN1103
CN1101
FANDET
FAN-REG
FANG
ACSV1
NC
ACSV2
HPSW
RY FR
RY-24V
C1184
AD CN1205
R CN5801
(ANP7388-A)
IC1102
IC1103
IC1101
AJ CN1005
AJ CN1001
POWER SW ASSY
AWX7840-
S1301
ACSW2
NC
ACSW1
CN1301
C1301
K CN3203
X J4802
V J4801
AJ CN1007
AB CN1103
R1212
R1214
R1211
R1213
FR OUT
SBR OUT
L1201
L1202
L1205
R1237
RY1201
RY1202
CN1205
SP(A) ASSY
CN1201
C1201
C1202
C1203
CN1202
J1203
YG-A3
To MAIN CAPACITOR

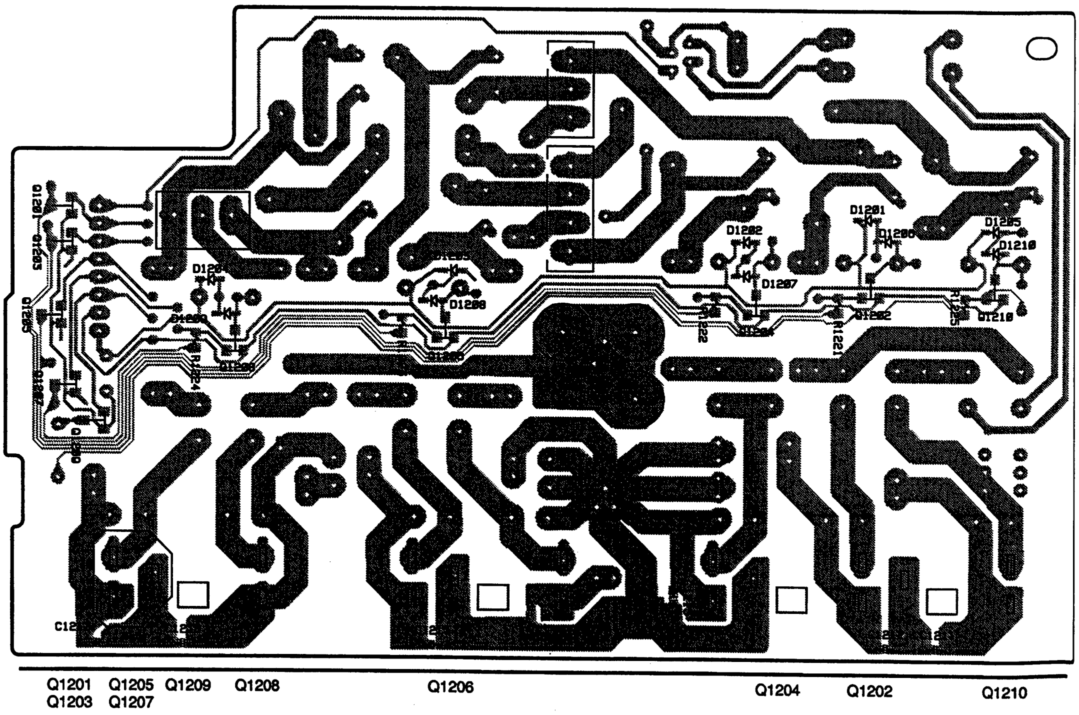
AB AC PRIMARY ASSY


(ANP7388-A)
Q1103
Q1101
Q1102
Q1104

AC POWER SW ASSY

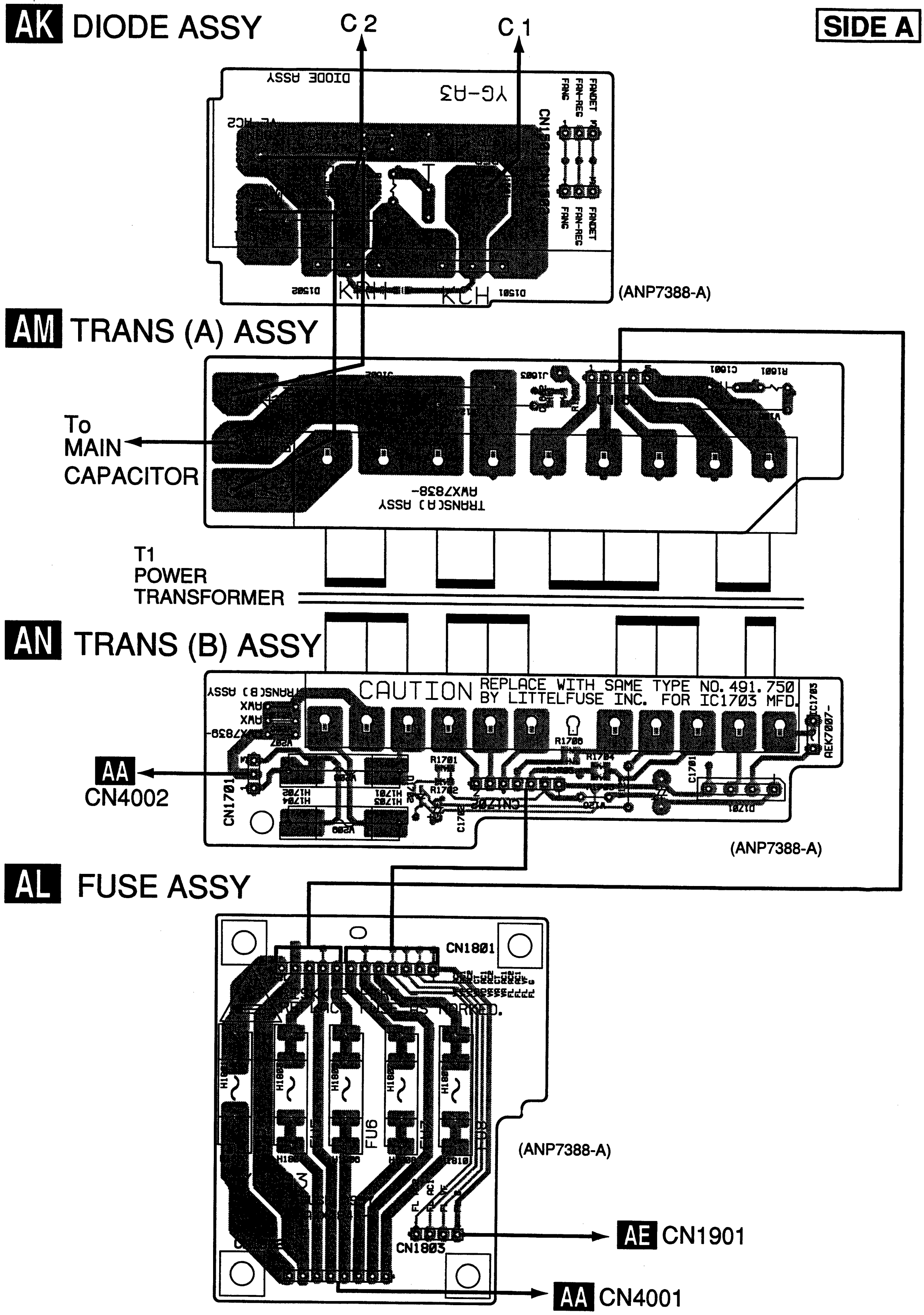


AD SP (A) ASSY


Q1201
Q1203
Q1205
Q1207
Q1209
Q1208
Q1206
Q1204
Q1202
Q1210

4.22 TRANS(A), TRANS(B), DIODE and FUSE ASSYS

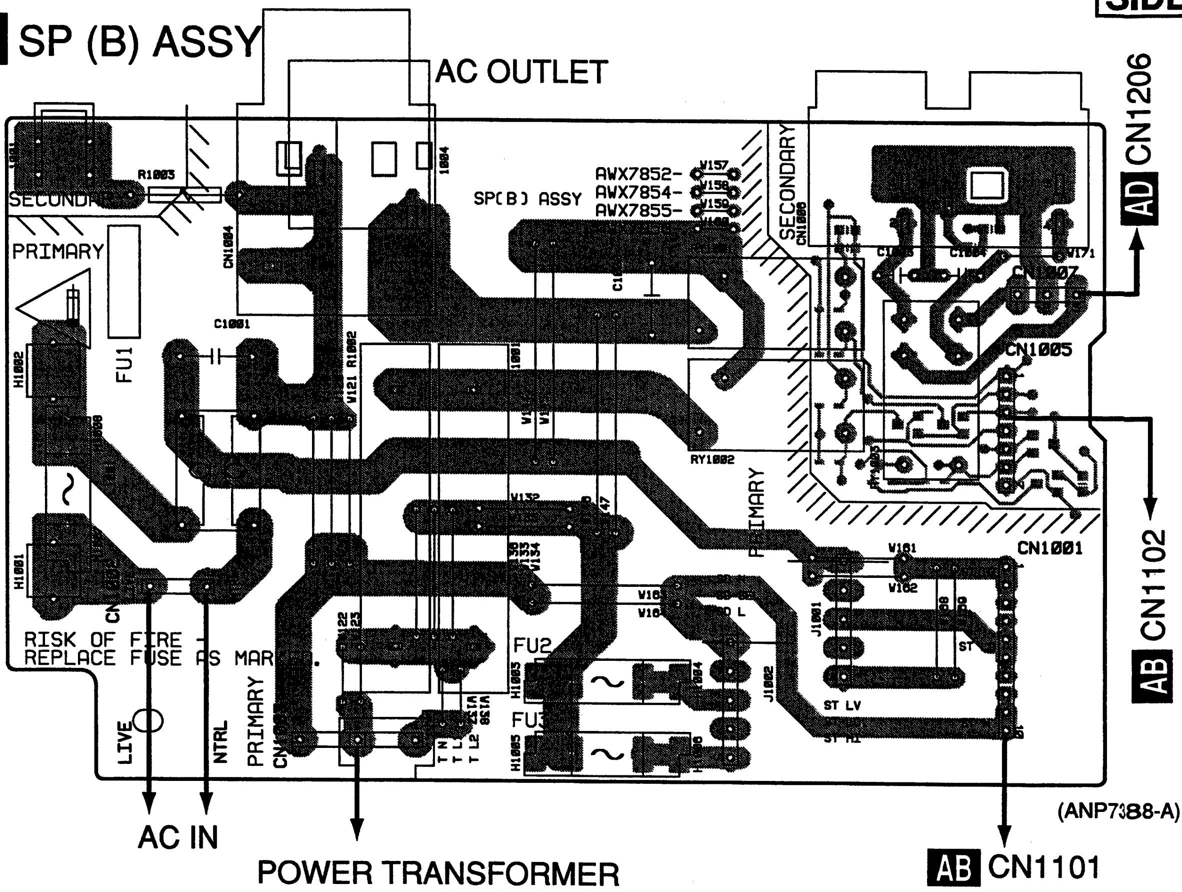
SIDE A


AK DIODE ASSY
C 2
C 1
(ANP7388-A)
AM TRANS (A) ASSY
To MAIN CAPACITOR
T1 POWER TRANSFORMER
AN TRANS (B) ASSY
CAUTION REPLACE WITH SAME TYPE NO. 491.750 BY LITTELFUSE INC. FOR IC1703 MFD.
R1700
AEK7007-
AA CN4002
CN1701
(ANP7388-A)
AL FUSE ASSY
CN1801
FU6
(ANP7388-A)
AE CN1901
CN1803
AA CN4001

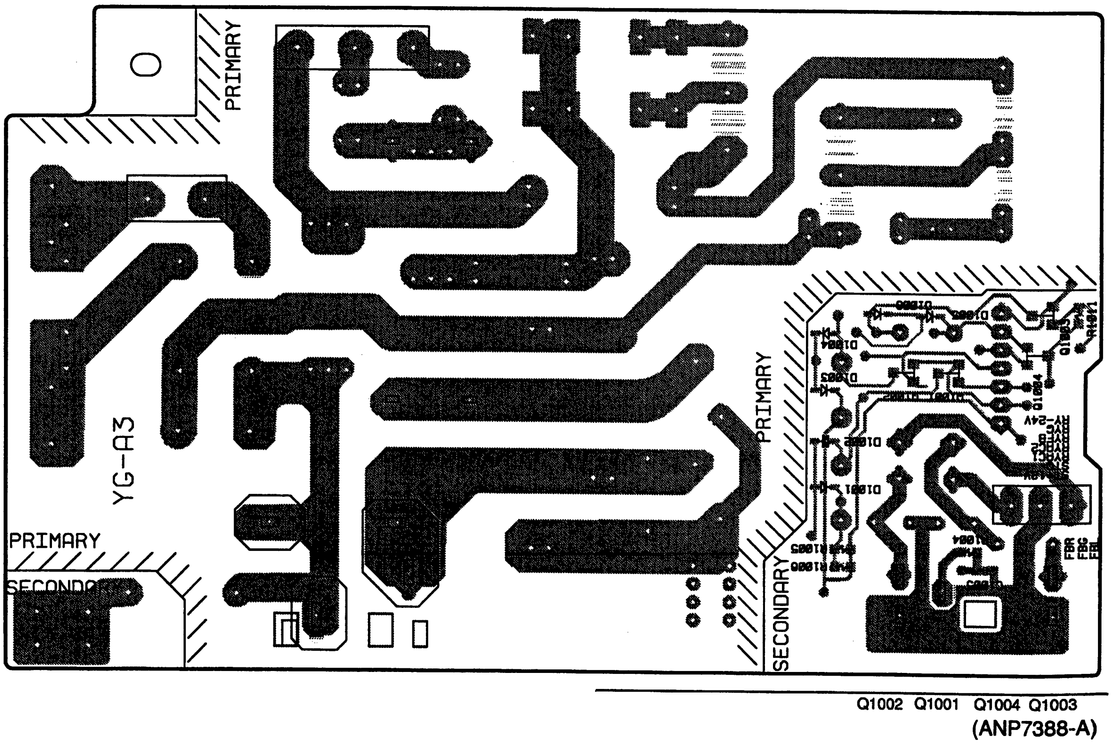
4.23 SP(B) ASSY

SIDE A

AJ SP (B) ASSY


AC OUTLET
AD CN1206
AB CN1102
AC IN
POWER TRANSFORMER
AB CN1101
SECONDARY
PRIMARY
FU1
FU2
FU3
SP(B) ASSY
AWX7852-
AWX7854-
AWX7855-
RY1002
CN1001
CN1005
RISK OF FIRE -
REPLACE FUSE AS MARKED.
LIVE
NTRL
(ANP7388-A)

SIDE B


PRIMARY
SECONDARY
YG-A3
Q1002 Q1001 Q1004 Q1003
(ANP7388-A)

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 :........................ RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.		Remarks
		VSX-49TX/KU/CA	VSX-47TX/KU/CA	
	FM/AM TUNER Module	AXQ7237	AXQ7237	
NSP	VIDEO Assy	AWQ7010	AWQ7011	
	├ A/V I/O Assy	AWX7938	AWX7939	
	├ COMPOSITE Assy	AWX7942	AWX7943	
	├ S-VIDEO Assy	AWX7948	AWX7949	
	├ V-CONVERT Assy	AWX7952	Not used	
	└ COMPONENT Assy	AWX7953	AWX7954	
NSP	A/D & CONTROL Assy	AWM7558	AWM7559	
	├ VIDEO CONNECT Assy	AWX7876	AWX7877	
	├ MIC AMP Assy	AWX7872	AWX7872	
	├ MIC & OPT Assy	AWX7875	AWX7875	
	├ FRONT A/V Assy	AWX7902	AWX7902	
	├ HEADPHONE Assy	AWX7874	AWX7874	
	├ ANALOG IN & A/D Assy	AWX7878	AWX7879	
	├ DISPLAY Assy	AWX7864	AWX7865	
	├ INPUT SEL Assy	AWX7868	AWX7868	
	├ MULTI JOG Assy	AWX7869	AWX7869	
	└ VOL Assy	AWX7870	AWX7870	
NSP	VR & MOTHER Assy	AWM7562	AWM7563	
	├ VR & PRE OUT Assy	AWX7888	AWX7917	
	└ MOTHER Assy	AWX7890	AWX7891	
	DSP Assy	AWK7719	AWK7720	
	DSP3 Assy	AWK7727	Not used	
	DAC10 Assy	AWK7725	Not used	
	DAC8 Assy	Not used	AWK7726	
NSP	POWER AMP Assy	AWH7004	AWH7004	
	├ POWER AMP (L) Assy	AWX7882	AWX7882	
	├ POWER AMP (C) Assy	AWX7884	AWX7884	
	├ POWER AMP (R) Assy	AWX7883	AWX7883	
	├ POWER AMP (BR) Assy	AWX7885	AWX7885	
	├ POWER AMP (G) Assy	AWX7886	AWX7886	
	└ LOCAL SUPPLY Assy	AWX7887	AWX7887	
NSP	PS & SP Assy	AWK7712	AWK7712	
	├ AC PRIMARY Assy	AWX7834	AWX7834	
	├ POWER SW Assy	AWX7840	AWX7840	
	├ SP (A) Assy	AWX7848	AWX7848	
	├ FL SUPPLY Assy	AWX7871	AWX7871	
	├ STANDBY Assy	AWX7901	AWX7901	
	├ POSISTER (L) Assy	AWX7844	AWX7844	
	├ POSISTER (R) Assy	AWX7846	AWX7846	
	├ DSP DIODE Assy	AWX7958	AWX7958	
	├ SP (B) Assy	AWX7852	AWX7852	
	├ DIODE Assy	AWX7841	AWX7841	
	├ FUSE Assy	AWX7843	AWX7843	
	├ TRANS (A) Assy	AWX7838	AWX7838	
	└ TRANS (B) Assy	AWX8057	AWX8057	

B A/V I/O ASSY

AWX7938 and AWX7939 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7938	AWX7939	
	R2025, R2026	RS1/16S102J	Not used	
	R2027, R2028	RS1/16S105J	Not used	
	R2029, R2030	RS1/16S221J	Not used	
	R2088-R2091	Not used	RS1/16S0R0J	
	2004 4P Pin Jack	AKB7075	Not used	

C COMPOSITE ASSY

AWX7942 and AWX7943 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7942	AWX7943	
	IC2102 Logic IC	TC74HC4053AFT	Not used	
	C2106	CEAT101M10	Not used	
	C2153	CCSRCH181J50	Not used	
	C2110, C2111, C2156	CKSRYB103K50	Not used	
	R2106, R2157	RS1/16S750J	Not used	
	R2113- R2115	RS1/16S102J	Not used	
	2104 2P Pin Jack	AKB7076	Not used	

D S-VIDEO ASSY

AWX7948 and AWX7949 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7948	AWX7949	
	C2306	CEAT101M10	Not used	
	C2312	CKSRYB473K25	Not used	
	C2318, C2384	CKSRYB103K50	Not used	
	C2324, C2375	CKSRYB104K16	Not used	
	C2378, C2381	CCSRCH181J50	Not used	
	R2306, R2312, R2401, R2404	RS1/16S750J	Not used	
	R2318	RS1/16S102J	Not used	
	R2407	RS1/16S103J	Not used	
	CN2304 Dual 4P Mini DIN Socket	AKP7023	Not used	

F COMPONENT ASSY

AWX7953 and AWX7954 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7953	AWX7954	
	IC2503	TC74LVX4053FT	Not used	
	C2514, C2515	CKSRYB103K50	Not used	
	R2519	RS1/16S102J	Not used	
	R2521	RS1/16S0R0J	Not used	

G VIDEO CONNECT ASSY

AWX7876 and AWX7877 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7876	AWX7877	
	CN3304 18P Plug	KM200TA18	Not used	

M DISPLAY ASSY

AWX7864 and AWX7865 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7864	AWX7865	
	D3013	SLI-343URW	Not used	
	R3013	RS1/16S561J	Not used	

Q VR & PRE OUT ASSY

AWX7888 and AWX7917 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7888	AWX7917	
	C5007, C5008, C5021, C5022, C5033, C5034	ACH7163	CEAT471M25	
	C5041, C5042, C5053, C5054, C5061, C5062	ACH7163	CEAT471M25	
	C5081, C5082	ACH7163	CEAT471M25	
	C5151, C5152, C5251, C5252, C5351, C5352	CEGA470M35	CENA470M25	
	C5451, C5452	CEGA470M35	CENA470M25	

R MOTHER ASSY

AWX7890 and AWX7891 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7890	AWX7891	
	IC5811	TC7S08FU	Not used	
	IC5812	TC7W126FU	Not used	
	Q5815	IRF7416	Not used	
	Q5816	2SK2103	Not used	
	Q5817	UN5212	Not used	
	Q5818	UN5112	Not used	
	L5805	QTL1013	Not used	
	C5840	CKSRYB103K50	Not used	
	C5841	CKSRYB104K16	Not used	
	R5854	Not used	RS1/16S103J	
	R5856	RS1/16S103J	Not used	
	R5904, R5905	RS1/16S0R0J	Not used	
	R5907, R5909, R5944, R5945	RS1/16S101J	Not used	
	R5908, R5910	RS1/16S104J	Not used	
	R5915-R5918, R5933, R5934, R5940-R5942	Not used	RS1/16S0R0J	
	R5928, R5937	RS1/16S221J	Not used	
	CN5825 JE Connector Socket	09R-JE	Not used	

■ PCB PARTS LIST FOR VSX-49TX/KU/CA UNLESS OTHERWISE NOTED

A FM/AM TUNER MODULE

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC201		BA1451F
	IC202		LC72131MD
	Q201,Q204,Q205		2SC2412K
	Q202		DTA124ES
	Q203		DTC124EK
	D201		1SS133
	D202		MTZJ5.1C

COILS AND FILTERS

Mark	No.	Description	Part No.
	L201	FM DET COIL	ATE7003
	F202	FM CERAMIC FILTER	ATF-107
	F201	FM CERAMIC FILTER	ATF-119
	F203	AM CERAMIC FILTER	ATF7026

CAPACITORS

Mark	No.	Description	Part No.
	C206		CCSRCH100D50
	C212,C213,C226,C233-C235		CCSRCH101J50
	C240		CCSRCH101J50
	C231,C232		CCSRCH150J50
	C223		CEAT100M50
	C229		CEAT101M10
	C224		CEAT1R0M50
	C227		CEAT220M25
	C241		CEAT2R2M50
	C243		CEAT330M16
	C228		CEAT3R3M50
	C237		CEAT470M10
	C211		CEJQ1R0M50
	C210		CEJQ470M16
	C204,C238,C613		CKSRYB102K50
	C101,C102,C208,C220,C239		CKSRYB103K50
	C242,C604		CKSRYB103K50
	C216,C217,C225		CKSRYB153K50
	C201,C205,C209,C214,C230		CKSRYB223K50
	C236,C603		CKSRYB223K50
	C221		CKSRYB224K10
	C202,C222		CKSRYB473K16
	C215		CKSRYB681K50

RESISTORS

Mark	No.	Description	Part No.
	R211		RD1/4PU221J
	R221		RD1/4PU222J
	R233		RD1/4PU391J
	R243		RS1/10S0R0J
	R103		RS1/10S331J
	R104		RS1/10S391J
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN201	13P FFC CONNECTOR	52044-1345
	BN201	2P ANTENNA TERMINAL	AKA7002
		SHIELD CASE T	ANK7072
		SHIELD CASE B	ANK7073
	X201	CRYSTAL RESONATOR (7.2MHz)	ASS1093

B A/V I/O ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC2053		BA4558F-HT
	IC2052		M62429FP
	IC2002		TC9162AF
	IC2001		TC9164AF
	IC2051		UPC4570C
	Q2051		HN1C03F
	D2052,D2053		1SS355
	D2051		UDZS5.6B

CAPACITORS

Mark	No.	Description	Part No.
	C2025,C2029,C2053,C2054		CCSRCH101J50
	C2063,C2064,C2077,C2078		CCSRCH101J50
	C2071		CCSRCH221J50
	C2079,C2080		CEAT100M50
	C2075,C2076		CEAT1R0M50
	C2055,C2056		CEAT470M25
	C2061,C2065,C2066		CEJQ100M16
	C2051,C2052,C2059,C2060		CEJQ1R0M50
	C2072		CKSRYB102K50
	C2019-C2022,C2069,C2081		CKSRYB103K50
	C2023,C2024,C2027,C2028		CKSRYB473K25
	C2082,C2083		CKSRYB473K50

RESISTORS

Mark	No.	Description	Part No.
	R2065		RD1/2LMF561J
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN2002	JE CONNECTOR	17PS-JE
	JA2001	6P PIN JACK	AKB7073
	2002-2004	4P PIN JACK	AKB7075
	JA2051	2P PIN JACK	DKB1045
	CN2001	17P SOCKET	KP200TA17L
	2051	2P MINI JACK	VKN1034

C COMPOSITE ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC2108,IC2109		BU4094BCF
	IC2106		NJM2296M
	IC2104		PDC084A
	IC2101,IC2107		TC74HC4051AFT
	IC2102,IC2103		TC74HC4053AFT
	IC2105		TK15420M
	Q2101-Q2103,Q2105-Q2108		2SC4081
	Q2104		UN5212
	D2101-D2103		1SS355

COILS

Mark	No.	Description	Part No.
	L2102,L2103		LAU100J
	L2101		LAU330J

Mark	No.	Description	Part No.
CAPACITORS			
	C2118		CCSRCH100D50
	C2123,C2132		CCSRCH101J50
	C2119		CCSRCH150J50
	C2120		CCSRCH180J50
	C2139,C2151-C2153,C2164		CCSRCH181J50
	C2121,C2122		CCSRCH240J50
	C2115,C2129,C2177-C2179		CEAT100M50
	C2101-C2106,C2114,C2124,C2125		CEAT101M10
	C2135,C2136,C2141,C2142		CEAT101M10
	C2165,C2166		CEAT101M10
	C2131		CEAT1R0M50
	C2180		CEAT470M10
	C2107-C2113,C2137,C2138		CKSRYB103K50
	C2143,C2144,C2154-C2156		CKSRYB103K50
	C2159-C2161,C2167,C2168,C2170		CKSRYB103K50
	C2130		CKSRYB122K50
	C2116,C2126,C2127,C2140		CKSRYB473K25
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	X2101	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	CN2101	JE CONNECTOR	19PS-JE
	2102-2105	2P PIN JACK	AKB7076
	JA2101	3P PIN JACK	AKB7109
	CN2102	12P SOCKET	KP200TA12L

D S-VIDEO ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC2310		BU4094BCF
	IC2305		LA7213
	IC2308,IC2309		NJM2296M
	IC2306		TC74HC4051AFT
	IC2303,IC2304		TC74HC4053AFT
	IC2301,IC2302		TC74LVX4051FT
	IC2307		TK15420M
	Q2303		2SA1576A
	Q2302		2SC4081
	Q2314		HN1B04FU
	Q2301		UN5212
	D2304,D2305,D2307		1SS355
CAPACITORS			
	C2337		CCSRCH151J50
	C2352,C2353,C2376-C2381		CCSRCH181J50
	C2390-C2392		CEAT100M50
	C2301-C2306,C2339,C2340		CEAT101M10
	C2347,C2348,C2357,C2358		CEAT101M10
	C2361,C2362,C2385,C2386		CEAT101M10
	C2338		CEAT3R3M50
	C2313-C2318,C2325-C2327		CKSRYB103K50
	C2330-C2333,C2335,C2336		CKSRYB103K50
	C2341,C2342,C2349,C2350,C2356		CKSRYB103K50
	C2359,C2360,C2363,C2364		CKSRYB103K50
	C2382-C2384,C2387,C2389		CKSRYB103K50
	C2319-C2324,C2328,C2351		CKSRYB104K16
	C2373-C2375,C2393,C2394		CKSRYB104K16
	C2307-C2312		CKSRYB473K25

Mark	No.	Description	Part No.
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	CN2301	JE CONNECTOR	17PS-JE
	CN2302-CN2305	DUAL 4P MINI DIN SOCKET	AKP7023
	JA2301	TRIPLE 4P MINI DIN SOCKET	AKP7049
	CN2306	8P SOCKET	KP200TA8L

E V-CONVERT ASSY (VSX-49TX Only)

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC2862		BU4094BCF
	IC2852		MM1093NF
	IC2863		NJM78M09FA
	IC2853		TA1270BF
	IC2859,IC2860		TC74LVX4053FT
	IC2851		TC90A49F
	IC2854-IC2858		TK15420M
	Q2851,Q2852,Q2902		2SA1576A
	Q2853,Q2854,Q2901,Q2904		2SC4081
COILS			
	L2856	CHIP FERRITE BEAD	ATL7002
	L2852-L2854,L2857		LAU100J
	L2855		LAU330J
	L2859		LCTA1R0J2520
CAPACITORS			
	C2865,C2887,C2876		CCSRCH100D50
	C2885		CCSRCH101J50
	C2919,C2920		CCSRCH120J50
	C2968		CCSRCH151J50
	C2867		CCSRCH181J50
	C2881		CCSRCH391J50
	C2873,C2886		CCSRCH560J50
	C2879		CCSRCH6R0D50
	C2851,C2853,C2981,C2982		CEAT100M50
	C2989-C2991		CEAT100M50
	C2855,C2860,C2862,C2868		CEAT101M10
	C2892,C2893,C2903,C2904		CEAT101M10
	C2909,C2910,C2917,C2918,C2928		CEAT101M10
	C2938,C2945,C2946,C2970,C2971		CEAT101M10
	C2924,C2926		CEAT2R2M50
	C2884,C2985		CEAT470M10
	C2874,C2877,C2880		CEAT4R7M50
	C2882		CKSRYB102K50
	C2854,C2856,C2857,C2859,C2861		CKSRYB103K50
	C2863,C2866,C2869-C2872,C2875		CKSRYB103K50
	C2878,C2883,C2890,C2891		CKSRYB103K50
	C2894-C2897,C2901,C2902		CKSRYB103K50
	C2907,C2908,C2915,C2916,C2923		CKSRYB103K50
	C2929,C2937,C2943,C2944,C2967		CKSRYB103K50
	C2978,C2979		CKSRYB103K50
	C2852,C2925,C2930-C2936,C2966		CKSRYB104K16
	C2986,C2983,C2984		CKSRYB104K16
	C2864		CKSRYB122K50
	C2921		CKSRYB222K50
	C2927		CKSRYB223K50

Mark	No.	Description	Part No.
	C2922		CKSRYB224K10
	C2858		CKSRYB474K10
	C2969		CKSRYB561K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN2851	JE CONNECTOR	09PS-JE
	X2851,X2853	CRYSTAL RESONATOR (3.579545MHz)	ASS1091
	X2852	CRYSTAL RESONATOR (4.433619MHz)	ASS1092
	X2854	CERAMIC RESONATOR (503kHz)	ASS7036
	CN2852	18P SOCKET	KP200TA18L

F COMPONENT ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC2507		BU4094BCF
	IC2505,IC2506		OPA2652U
	IC2509		SP232AEP
	IC2504		TC74HC4053AFT
	IC2501,IC2502		TC74LVX4052FT
	IC2503		TC74LVX4053FT
	Q2502		2SA1576A
	Q2501,Q2503		2SC4081
	D2501-D2503		1SS355

COIL

Mark	No.	Description	Part No.
	L2501		LAU1R0J

CAPACITORS

Mark	No.	Description	Part No.
	C2541,C2542		CEAT100M50
	C2524,C2525,C2532,C2533		CEAT101M10
	C2537,C2538,C2567		CEAT101M10
	C2563-C2565,C2568		CEAT1R0M50
	C2510-C2517,C2522,C2523		CKSRYB103K50
	C2530,C2531,C2535,C2536		CKSRYB103K50
	C2557,C2558,C2569,C2571-C2579		CKSRYB103K50
	C2581		CKSRYB103K50
	C2566		CKSRYB104K25
	C2582		CKSRYB331K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN2501	JE CONNECTOR	19PS-JE
	JA2502	6P PIN JACK	AKB7127
	JA2501	6P PIN JACK	AKB7141
	JA2504	MULTI ROOM JACK	AKN7014
	CN2505	9P D-SUB SOCKET	AKP1213
	CN2502	10P SOCKET	KP200TA10L
	2501	SCREW TERMINAL	VNE1948

G VIDEO CONNECT ASSY

OTHERS

Mark	No.	Description	Part No.
	CN3303	10P PLUG	KM200TA10
	CN3301	12P PLUG	KM200TA12
	CN3304	18P PLUG	KM200TA18
	CN3302	8P PLUG	KM200TA8

H MIC AMP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC3201		M5220FP
	Q3204		HN1C01FU
	Q3202		RN4903
	D3201		1SS355
	D3202		UDZS5.6B

CAPACITORS

Mark	No.	Description	Part No.
	C3211,C3220,C3226		CCSRCH101J50
	C3214		CCSRCH330J50
	C3210,C3218,C3221,C3224,C3227		CEAL100M16
	C3231,C3232		CEAL101M10
	C3206		CEAL220M16
	C3212,C3215		CEAL220M35
	C3223,C3229,C3230		CEAL330M25
	C3205,C3228		CKSRYB104K16

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN3207	11P FFC CONNECTOR	52044-1145
	CN3205	KR CONNECTOR	S4B-PH-K
	KN3202	EARTH METAL FITTING	VNF1084

I MIC & OPT ASSY

COILS

Mark	No.	Description	Part No.
	L3202	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C3203		CEAL470M10
	C3202		CKSRYB104K16
	C3201		CKSRYB103K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN3202	KR CONNECTOR	B4B-PH-K
	CN3201	KR CONNECTOR	B5B-PH-K
	JA3201	OPTICAL LINK IN	GP1FA502RZ
	JA3202	REMOTE CONTROL JACK	RKN1004

J FRONT A/V ASSY

CAPACITORS

Mark	No.	Description	Part No.
	C3234,C3237		CKSRYB104K16
	C3233		CKSRYB473K50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	JA3204	FRONT PIN JACK 4P	AKX7014
	CN3204	KR CONNECTOR	B8B-PH-K
	J3301	4P JUMPER WIRE	D20PYY0405E
	J3003,J3004	4P JUMPER WIRE	D20PYY0410E
	J3002	5P JUMPER WIRE	D20PYY0510E

K HEADPHONE ASSY

CAPACITOR

Mark	No.	Description	Part No.
	C3209		CKSRYB104K16

RESISTORS

Mark	No.	Description	Part No.
	R3207		RS1/16S0R0J

OTHERS

Mark	No.	Description	Part No.
	CN3203	4P FFC CONNECTOR	52045-0445
	JA3203	HEADPHONE JACK	RKB1014
	KN3201	EARTH METAL FITTING	VNF1084

L ANALOG IN & A/D ASSY (AWX7878 for VSX-49TX)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC3421,IC3441,IC3461,IC3481		AK5383VS
	IC3901		BU4052BCF
	IC3423		M5220P
	IC3501,IC3502,IC3601,IC3602		NJM2068D
	IC3701,IC3702,IC3801,IC3802		NJM2068D
⚠	IC3402		PQ3DZ13
	IC3401,IC3422		TC9163AF
	IC3424,IC3462		UPC4570C
	Q3501,Q3601,Q3701,Q3801		HN1C03F
	Q3401		RN4903
	D3501,D3502,D3601,D3602		DAN202K
	D3701,D3702,D3801,D3802		DAN202K
	D3503,D3504,D3603,D3604		DAP202K
	D3703,D3704,D3803,D3804		DAP202K
	D3901,D3902		UDZS6.2B

COILS

Mark	No.	Description	Part No.
	L3401,L3402,L3421,L3422	CHIP FERRITE BEAD	ATL7002
	L3441,L3442,L3461,L3462	CHIP FERRITE BEAD	ATL7002
	L3481,L3482	CHIP FERRITE BEAD	ATL7002
	L3423,L3443,L3463,L3483	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C3411-C3414,C3435,C3436	(470μF/25V)	ACH7163
	C3473,C3474	(470μF/25V)	ACH7163
	C3405,C3428,C3503,C3504		CCSRCH101J50
	C3549,C3550,C3563,C3564		CCSRCH101J50
	C3567,C3568,C3603,C3604		CCSRCH101J50
	C3703,C3704,C3755,C3756		CCSRCH101J50
	C3759,C3760,C3803,C3804		CCSRCH101J50
	C3401,C3547,C3548,C3559,C3560		CEAT100M50
	C3951,C3952		CEAT100M50
	C3515,C3516,C3615,C3616		CEAT101M10
	C3715,C3716,C3815,C3816		CEAT101M10
	C3429,C3430		CEAT101M25
	C3551,C3552		CEAT470M16
	C3402		CEHAZL101M10
	C3421,C3422,C3441,C3442		CENA100M50
	C3461,C3462,C3481,C3482		CENA100M50
	C3509-C3512,C3523,C3524		CENA100M50
	C3561,C3562,C3609-C3612		CENA100M50
	C3623,C3624,C3709-C3712		CENA100M50
	C3723,C3724,C3753,C3754		CENA100M50
	C3757,C3758,C3809-C3812		CENA100M50
	C3823,C3824		CENA100M50
	C3565,C3566		CENA220M25
	C3501,C3502,C3601,C3602		CENA470M25
	C3701,C3702,C3801,C3802		CENA470M25
	C3427,C3447,C3467,C3487		CKSRYB102K50
	C3505-C3508,C3513,C3514		CKSRYB103K50
	C3605-C3608,C3613,C3614		CKSRYB103K50
	C3705-C3708,C3713,C3714		CKSRYB103K50
	C3805-C3808,C3813,C3814		CKSRYB103K50
	C3423,C3424,C3443,C3444		CKSRYB104K16
	C3463,C3464,C3483,C3484		CKSRYB104K16
	C3517,C3518,C3521,C3522,C3575		CKSRYB104K16
	C3577,C3579,C3581,C3617,C3618		CKSRYB104K16
	C3621,C3622,C3717,C3718		CKSRYB104K16
	C3721,C3722,C3817,C3818		CKSRYB104K16
	C3821,C3822		CKSRYB104K16
	C3519,C3520,C3619,C3620		CKSRYB224K10
	C3719,C3720,C3819,C3820		CKSRYB224K10
	C3425,C3445,C3465,C3485		CKSRYB471K50
	C3403,C3404,C3431,C3432		CKSRYB473K50
	C3953,C3954		CKSRYB473K50
	C3557,C3558		CQMA242J50
	C3555,C3556		CQMA822J50

RESISTORS

Mark	No.	Description	Part No.
⚠	R3411-R3414,R3471,R3472		RD1/4MUF470J
	R3525-R3528,R3625-R3628		RS1/16S1002F
	R3725-R3728,R3825-R3828		RS1/16S1002F
	R3765,R3766		RS1/16S1201F
	R3589,R3590		RS1/16S1801F
	R3509,R3510,R3609,R3610		RS1/16S2701F
	R3709,R3710,R3809,R3810		RS1/16S2701F
	R3587,R3588,R3763,R3764		RS1/16S2702F
	R3511-R3516,R3611-R3616		RS1/16S3901F
	R3711-R3716,R3811-R3816		RS1/16S3901F
⚠	R3407,R3408,R3431-R3436		RS1/16S470J
⚠	R3951,R3952		RS1/16S472J
	R3501,R3502,R3601,R3602		RS1/16S6801F
	R3701,R3702,R3801,R3802		RS1/16S6801F
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	3401,3501,3503,3504	4P PIN JACK	AKB7075
	CN3402	17P SOCKET	KP200TA17L
	CN3401	20P SOCKET	KP200TA20L
	CN3403	B TO B CONNECTOR 30P	VKN1395

L ANALOG IN & A/D ASSY (AWX7879 for VSX-47TX)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC3421		AK5383VS
	IC3901		BU4052BCF
	IC3423		M5220P
	IC3501,IC3502		NJM2068D
⚠	IC3402		PQ3DZ13
	IC3422		TC9163AF
	IC3424,IC3462		UPC4570C
	Q3501		HN1C03F
	Q3401		RN4903
	D3501,D3502		DAN202K
	D3503,D3504		DAP202K
	D3901,D3902		UDZS6.2B

COILS

Mark	No.	Description	Part No.
	L3401,L3402,L3421,L3422	CHIP FERRITE BEAD	ATL7002
	L3423	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C3428,C3503,C3504,C3549,C3550		CCSRCH101J50
	C3563,C3564,C3567,C3568		CCSRCH101J50
	C3755,C3756,C3759,C3760		CCSRCH101J50
	C3401,C3547,C3548,C3559,C3560		CEAT100M50
	C3951,C3952		CEAT100M50
	C3515,C3516		CEAT101M10
	C3429,C3430		CEAT101M25
	C3551,C3552		CEAT470M16
	C3411,C3412,C3435,C3436		CEAT471M25
	C3473,C3474		CEAT471M25
	C3402		CEHAZL101M10
	C3421,C3422,C3509-C3512		CENA100M50
	C3523,C3524,C3561,C3562		CENA100M50
	C3753,C3754,C3757,C3758		CENA100M50
	C3565,C3566		CENA220M25
	C3501,C3502		CENA470M25
	C3427		CKSRYB102K50
	C3505-C3508,C3513,C3514		CKSRYB103K50
	C3423,C3424,C3517,C3518		CKSRYB104K16
	C3521,C3522,C3575,C3577,C3579		CKSRYB104K16
	C3581		CKSRYB104K16
	C3519,C3520		CKSRYB224K10
	C3425		CKSRYB471K50
	C3431,C3432,C3953,C3954		CKSRYB473K50
	C3557,C3558		CQMA242J50
	C3555,C3556		CQMA822J50

RESISTORS

Mark	No.	Description	Part No.
⚠	R3411,R3412,R3471,R3472		RD1/4MUF470J
	R3525-R3528		RS1/16S1002F
	R3765,R3766		RS1/16S1201F
	R3589,R3590		RS1/16S1801F
	R3591,R3592		RS1/16S2700F
	R3509,R3510		RS1/16S2701F
	R3587,R3588,R3763,R3764		RS1/16S2702F
	R3511-R3516		RS1/16S3901F
⚠	R3431-R3436		RS1/16S470J
⚠	R3951,R3952		RS1/16S472J
	R3501,R3502		RS1/16S6801F
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	3401,3501,3503,3504	4P PIN JACK	AKB7075
	CN3402	17P SOCKET	KP200TA17L
	CN3401	20P SOCKET	KP200TA20L
	CN3403	B TO B CONNECTOR 30P	VKN1395

M DISPLAY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC3002		BU2092F
	IC3001		PD5686B
	IC3061		TC74HC4053AFT
	Q3052		2SA1036K
	Q3061		2SA1576A
	Q3053,Q3054		2SD2114K
	Q3002,Q3062		RN1903
	Q3063		RN2903
	Q3001,Q3003,Q3051		UN5212
	D3061-D3067		1SS355
	D3030,D3031		DAN202K
	D3026,D3028,D3029		SLI-343DUW(STU)
	D3001,D3003,D3005,D3007,D3009		SLI-343URW(RST)
	D3011,D3013,D3015-D3018,D3025		SLI-343URW(RST)
	D3019		TLGE68TG(NP)

COILS

Mark	No.	Description	Part No.
	L3001	CHIP FERRITE BEAD	ATL7002
	L3002	CHIP SOLID INDUCTOR	QTL1013

SWITCHES

Mark	No.	Description	Part No.
	S3081-S3098		ASG7013

CAPACITORS

Mark	No.	Description	Part No.
	C3035,C3071,C3075,C3076		CCSRCH101J50
	C3031,C3061,C3072,C3074		CEJQ101M6R3
	C3053		CEJQ2R2M50
	C3081-C3084		CKSRYB102K50
	C3051,C3062,C3085		CKSRYB103K50
	C3034,C3052,C3073,C3079		CKSRYB104K16
	C3063		CKSRYB153K50
	C3020,C3021		CKSRYB473K50

RESISTORS

Mark	No.	Description	Part No.
	R3060		RD1/2LMF103J
	R3059		RS1LMF220J
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	X3001	CERAMIC RESONATOR (4.19MHz)	ASS7042
	3001,3003,3004	4P CABLE HOLDER	51048-0400
	3002	5P CABLE HOLDER	51048-0500
	CN3001	FFC CONNECTOR 17P	52492-1720
	V3001	FL TUBE	AAV7081
	J3001	EARTH LEAD WIRE	DE005WE0
	CN3002	FFC CONNECTOR 3P	HLEM3S-1
	IC3062	REMOTE RECEIVER UNIT	NJL64H400A
	3006,3007	SOACER	AEB7232

N INPUT SEL ASSY

SWITCH

Mark	No.	Description	Part No.
	S3103		ASX7038

CAPACITORS

Mark	No.	Description	Part No.
	C3110,C3111		CKSRYB103K50

RESISTORS

Mark	No.	Description	Part No.
	R3109,R3110		RS1/16S437J

OTHERS

Mark	No.	Description	Part No.
	3104	4P CABLE HOLDER	51048-0400

O MULTI JOG ASSY

SWITCH

Mark	No.	Description	Part No.
	S3101		ASX7039

CAPACITORS

Mark	No.	Description	Part No.
	C3105,C3106		CKSRYB103K50

RESISTORS

Mark	No.	Description	Part No.
	R3105,R3106		RS1/16S473J

OTHERS

Mark	No.	Description	Part No.
	3102	5P CABLE HOLDER	51048-0500

P VOL ASSY

SWITCH

Mark	No.	Description	Part No.
	S3102		ASX7037

CAPACITORS

Mark	No.	Description	Part No.
	C3108,C3109		CKSRYB103K50

RESISTORS

Mark	No.	Description	Part No.
	R3107,R3108		RS1/16S473J

OTHERS

Mark	No.	Description	Part No.
	3103	4P CABLE HOLDER	51048-0400

Q VR & PRE OUT ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC5084		BU4052BCF
	IC5023,IC5063,IC5181,IC5182		NJM2068D
⚠	IC5002		NJM78M15FA
⚠	IC5003		NJM79M15FA
	IC5022,IC5042,IC5062,IC5082		OPA2134PA
	IC5001		TC9274N-016
	IC5021,IC5041,IC5061,IC5081		TC94A07F
	IC5043,IC5083		UPC4570C
	Q5101,Q5102,Q5201,Q5202,Q5204		HN1C03F
	Q5301,Q5302,Q5401,Q5402		HN1C03F
	D5001-D5004		1SS355
	D5085-D5090		DA204K
	D5083,D5084		UDZS6.2B

CAPACITORS

Mark	No.	Description	Part No.
	C5007,C5008,C5021,C5022 (470µF/25V)		ACH7163
	C5033,C5034,C5041,C5042 (470µF/25V)		ACH7163
	C5053,C5054,C5061,C5062 (470µF/25V)		ACH7163
	C5081,C5082 (470µF/25V)		ACH7163
	C5013,C5024,C5044,C5064,C5084		CCSRCH101J50
	C5123,C5124,C5223,C5224		CCSRCH101J50
	C5257,C5258,C5261,C5262		CCSRCH101J50
	C5323,C5324,C5423,C5424		CCSRCH101J50
	C5457,C5458,C5461,C5462		CCSRCH101J50
	C5153,C5154,C5181,C5182		CCSRCH220J50
	C5189,C5190,C5353,C5354		CCSRCH220J50
	C5911,C5912,C5921,C5922		CCSRCH330J50
	C5931,C5932,C5941,C5942		CCSRCH330J50
	C5003-C5006		CEAT100M50
	C5001,C5002		CEAT1R0M50
	C5011,C5012,C5095,C5096		CEAT470M25
	C5151,C5152,C5251,C5252		CEGA470M35
	C5351,C5352,C5451,C5452		CEGA470M35
	C5255,C5256,C5259,C5260		CENA100M50
	C5455,C5456,C5459,C5460		CENA100M50
	C5125-C5128,C5155,C5156		CENA470M25
	C5183,C5184,C5225-C5228		CENA470M25
	C5325-C5328,C5355,C5356		CENA470M25
	C5425-C5428		CENA470M25
	C5121,C5122,C5221,C5222		CENA4R7M50
	C5321,C5322,C5421,C5422		CENA4R7M50
	C5015-C5017,C5031,C5032		CKSRYB103K50
	C5051,C5052,C5071,C5072		CKSRYB103K50
	C5091,C5092,C5185-C5188		CKSRYB103K50
	C5014		CKSRYB104K16
	C5009,C5010,C5025,C5026		CKSRYB473K50
	C5029,C5030,C5045,C5046		CKSRYB473K50
	C5049,C5050,C5065,C5066		CKSRYB473K50
	C5069,C5070,C5085,C5086		CKSRYB473K50
	C5089,C5090,C5097,C5098		CKSRYB473K50
	C5131-C5134,C5233-C5236,C5242		CKSRYB473K50
	C5244,C5331-C5334,C5431-C5434		CKSRYB473K50

RESISTORS

Mark	No.	Description	Part No.
⚠	R5007,R5008,R5021,R5022		RD1/4MUF470J
⚠	R5029,R5030,R5041,R5042		RD1/4MUF470J
⚠	R5049,R5050,R5061,R5062		RD1/4MUF470J
⚠	R5081,R5082		RD1/4MUF470J
⚠	R5001,R5002		RD1/4MUF4R7J
	R5267,R5268,R5467,R5468		RS1/16S1201F
	R5265,R5266,R5465,R5466		RS1/16S2702F
⚠	R5005,R5006		RS1/16S470J
⚠	R5091,R5092		RS1/16S472J
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	5002,5021	4P PIN JACK	AKB7075
	JA5042	AUDIO 2P PIN JACK	AKB7144
	JA5001	4P PIN JACK	AKB7145
	CN5005	8P CONNECTOR	B08B-XASK-1
	CN5006	14P CONNECTOR	B14B-XASK-1

Mark	No.	Description	Part No.
	CN5002	9P SOCKET	KP200TA9L
	CN5004	6P CONNECTOR	S06B-XASK-1
	JA5041	1P PIN JACK (AU, BLK)	VKB1074
	CN5003	B TO B CONNECTOR 24P	VKN1392
	CN5001	B TO B CONNECTOR 30P	VKN1395

R MOTHER ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC5802		AT24C16N-10SI2.5
⚠	IC5806,IC5808		NJM78M15FA
⚠	IC5807,IC5809		NJM79M15FA
	IC5801		PD5685A9
	IC5810		PST9242NR
	IC5803,IC5804		TC74HCT244AF
	IC5811,IC5813		TC7S08FU
	IC5812		TC7W126FU
⚠	Q5805		2SC5174P
⚠	Q5816		2SK2103
⚠	Q5815		IRF7416
	Q5801		RN1903
	Q5806		RN4903
	Q5808,Q5809,Q5818		UN5112
	Q5810		UN511L
	Q5807,Q5817		UN5212
	D5803-D5806,D5814,D5815		1SS355
	D5821-D5823		1SS355
	D5819,D5820		DAN202K
	D5817		DAP202K
	D5801		UDZ11B

COILS

Mark	No.	Description	Part No.
	L5802,L5803,L5806	CHIP FERRITE BEAD	ATL7002
	L5804		LCTA1R0J2520
	L5805,L5807-L5809	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C5839 (0.1μF/5.5V)		ACH7141
	C5829,C5831,C5834,C5836		CEAT100M50
	C5819		CEAT101M16
	C5873		CEAT221M6R3
	C5868		CEAT331M10
	C5847		CEAT471M6R3
	C5818		CEJQ100M16
	C5832,C5837,C5844		CEJQ100M25
	C5801,C5802,C5828,C5830,C5833		CEJQ1R0M50
	C5835		CEJQ1R0M50
	C5848,C5859		CEJQ221M6R3
	C5817,C5838,C5840,C5850,C5858		CKSRYB103K50
	C5860,C5861,C5863,C5864,C5869		CKSRYB103K50
	C5804,C5820,C5841,C5843,C5845		CKSRYB104K16
	C5849,C5856,C5866,C5872		CKSRYB104K16
	C5842,C5846		CKSRYB471K50
	C5857,C5862,C5867,C5871		CKSRYB473K50
	C5803		CKSRYF105Z10

RESISTORS

Mark	No.	Description	Part No.
	R5840,R5841		RAB4C104J
	R5901,R5920		RAB4C221J
⚠	R5835,R5836		RD1/4MUF100J
⚠	R5930		RD1/4MUF101J
⚠	R5833,R5837		RD1/4MUF4R7J
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN5825	JE CONNECTOR	09R-JE
	CN5821,CN5823	JE CONNECTOR	17R-JE
	CN5822,CN5824	JE CONNECTOR	19R-JE
	CN5806	11P FFC CONNECTOR	52045-1145
	CN5802	13P FFC CONNECTOR	52045-1345
	CN5807	17P FFC CONNECTOR	52045-1745
	CN5801	14P FFC CONNECTOR	52492-1420
	J5806	2P CONNECTOR ASSY	ADX7375
	J5801	1P BOARD IN WIRE	ADX7376
	J5803	1P BOARD IN WIRE	ADX7391
	X5801	CERAMIC RESONATOR (15.67MHz)	ASS7043
	CN5805	9P CONNECTOR	B09B-XASK-1
	CN5804	KR CONNECTOR	B5B-PH-K
	CN5827,CN5828	KR CONNECTOR	B6B-PH-K
	CN5810,CN5811	B TO B CONNECTOR 17P	BTEM17S-1S
	CN5809	CONNECTOR	BTEM9S-1S
	CN5813,CN5815,CN5820	17P PLUG	KM200TA17
	CN5814	20P PLUG	KM200TA20
	CN5812	7P PLUG	KM200TA7
	CN5817	9P PLUG	KM200TA9
	5801	PCB BINDER	VEF1040
	CN5819	B TO B CONNECTOR 24P	VKN1405
	CN5816,CN5818	B TO B CONNECTOR 30P	VKN1408
	KN5802	EARTH METAL FITTING	VNF1084

S DSP ASSY (AWK7719 for VSX-49TX)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC301		ADSST21065LKS-264
	IC101		AK4114VQ
	IC203		BA4558F-HT
	IC703-IC705		BU4094BCFV
	IC302,IC303		HY57V161610DTC-10
	IC402		IS61LV6416-12T
	IC202		IS62C256-45T
	IC403		IS63LV1024-12T
	IC702		AYW7012
	IC304		AYW7014
	IC701		M30620SAFP
	IC201		PM4007A
⚠	IC305,IC415,IC713		PQ3DZ13
⚠	IC416		PQ7VZ5
	IC102		TC74HC151AF
	IC204		TC74HCT08AF
	IC406,IC409,IC717		TC74VHC00FT
	IC712		TC74VHC04FT
	IC111,IC413		TC74VHC08FT
	IC114,IC714,IC715,IC718		TC74VHC125FT
	IC716		TC74VHC126FT
	IC110		TC74VHC153FT
	IC112,IC410,IC412		TC74VHC157FT
	IC116		TC74VHC257FT
	IC711		TC74VHC32FT

Mark	No.	Description	Part No.
	IC107		TC74VHC4040FT
	IC707-IC710		TC74VHC573FT
	IC404,IC407,IC411		TC74VHC74FT
	IC414		TC74VHCU04FT
	IC103		TC7SET08F
	IC719-IC721		TC7SET08FU
	IC108		TC7SH04FU
	IC405,IC408		TC7SH86F
	IC115		TC7WH08FU
	IC113		TC7WH157FU
	IC104-IC106		TC7WU04F
	IC205		TK15420M
	IC401		XCA56367PV150
	Q203,Q204		2SA1037K
⚠	Q101,Q210,Q212		2SB1197K
	Q201,Q202		2SC2412K
	Q208,Q209		2SC4081
⚠	Q213		2SD1781K
	Q102		DTC124EK
	Q211		RN1903
	D203		1SS355
	D202		KV1851

COILS AND FILTERS

	F201	BAND PASS FILTER	ATF7027
	L114,L117,L201,L206,L207	CHIP FERRITE BEAD	ATL7002
	L303,L305-L307,L405-L407	CHIP FERRITE BEAD	ATL7002
	L409,L411,L701-L704	CHIP FERRITE BEAD	ATL7002
	L202		LCTA680J2520
	L101-L108,L110,L113	CHIP SOLID INDUCTOR	QTL1013
	L118-L120,L203,L204,L413	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

	C166,C231,C441,C442		CCSRCH150J50
	C120,C128,C136,C165		CCSRCH220J50
	C272		CCSRCH221J50
	C119,C127,C135		CCSRCH470J50
	C216		CCSRCH561J50
	C211		CCSRCH750J50
	C103,C111,C124,C132,C140		CEAT101M16
	C143,C153,C167,C234		CEAT101M16
	C180,C183,C312,C316,C703		CEAT101M6R3
	C220		CEAT470M10
	C147,C207,C209,C219,C254		CEAT470M16
	C476,C485		CEHAZA101M10
	C158,C161		CEHAZA470M16
	C302		CEHAZL101M25
	C306,C309,C447,C448,C701		CEJQ101M6R3
	C704		CEJQ101M6R3
	C481,C482,C718,C744,C745		CEJQ470M16
	C229		CEJQNP4R7M25
	C164		CFTYA474J50
	C223,C224,C456		CKSQYB105K10
	C222,C323,C325,C331,C334		CKSRYB102K50
	C336,C341,C349,C351,C364		CKSRYB102K50
	C423,C430,C452,C455,C462		CKSRYB102K50
	C464,C469,C471		CKSRYB102K50
	C104,C108,C112,C116,C117		CKSRYB103K50
	C123,C125,C131,C133,C139		CKSRYB103K50
	C152,C202,C214,C232,C233		CKSRYB103K50
	C273,C454,C458		CKSRYB103K50
	C101,C105,C109,C113,C121		CKSRYB104K16
	C129,C138,C141,C144		CKSRYB104K16
	C149,C150,C155,C156,C160		CKSRYB104K16
	C168,C172,C174,C176,C178		CKSRYB104K16
	C181,C185,C189,C191		CKSRYB104K16
	C204-C206,C208,C210		CKSRYB104K16
	C212,C213,C215,C225-C228		CKSRYB104K16
	C230,C235,C237,C240-C242		CKSRYB104K16
	C244,C248,C251,C252,C255		CKSRYB104K16
	C257,C304,C315,C318,C320		CKSRYB104K16
	C322,C328,C330,C338,C340		CKSRYB104K16
	C343,C346,C347,C354		CKSRYB104K16
	C356,C357,C360,C362,C366		CKSRYB104K16
	C368,C384,C388-C391,C393		CKSRYB104K16
	C395,C398,C400,C401,C403		CKSRYB104K16
	C405,C407,C422,C424,C427		CKSRYB104K16
	C429,C431,C434,C436		CKSRYB104K16
	C438,C439,C444,C446,C450		CKSRYB104K16
	C460,C461,C467,C473,C478		CKSRYB104K16
	C480,C484,C487,C702,C705		CKSRYB104K16
	C708,C710,C712-C714,C717		CKSRYB104K16
	C719,C721,C723,C725,C727		CKSRYB104K16
	C729,C731,C733,C736,C737		CKSRYB104K16
	C739,C741,C742,C746,C747		CKSRYB104K16
	C749,C751-C756		CKSRYB104K16
	C203		CKSRYB223K50
	C154,C157,C159,C236		CKSRYB471K50
	C238,C239,C243,C247		CKSRYB471K50
	C249,C250,C253,C256,C305		CKSRYB471K50
	C317,C319,C321,C327,C329		CKSRYB471K50
	C337,C339,C345,C348,C353		CKSRYB471K50
	C355,C358,C359,C361,C365		CKSRYB471K50
	C367,C386,C387,C397,C402		CKSRYB471K50
	C404,C408,C443,C449,C451		CKSRYB471K50
	C453,C459,C463,C465,C466		CKSRYB471K50
	C468,C470,C472,C474,C477		CKSRYB471K50
	C479,C706,C707,C709,C716		CKSRYB471K50
	C748,C750		CKSRYB471K50
	C457		CKSRYB563K16

RESISTORS

	R136,R196,R303,R311,R348		RAB4C101J
	R701,R712,R729,R730		RAB4C101J
	R320,R323,R324		RAB4C103J
	R175,R703,R713,R719,R722		RAB4C221J
	R771		RAB4C221J
	R345,R346,R368,R369,R766		RAB4C330J
	R772		RAB4C330J
	R329,R330,R365,R376,R377		RAB4C470J
	R450		RAB4C470J
	R446,R454,R735-R740		RAB4C473J
	R356,R371,R372		RAB4C680J
	R133		RS1/16S1802D
	R467		RS1/16S3600F
	R468		RS1/16S7500F
	Other Resistors		RS1/16S□□□J

OTHERS

	CN706,CN707	FJ CONNECTOR 14P	14PL-FJ
	JA107,JA108	2P PIN JACK	AKB7148

Mark	No.	Description	Part No.
	CN709	16P PLUG	AKM7049
	CN708	22P PLUG	AKM7052
	X201	CRYSTAL RESONATOR (18.432MHz)	ASS7009
	X101	CRYSTAL RESONATOR (24.576MHz)	ASS7025
	X401	CRYSTAL RESONATOR (33MHz)	ASS7040
	X701	CERAMIC RESONATOR (7.7MHz)	ASS7045
	CN704	2P VH SIDE CONNECTOR	B2PS-VH
	CN701,CN702	B TO B CONNECTOR 17P	BTEM17P-1R
	CN703	B TO B CONNECTOR 9P	BTEM9P-1R
	JA101-JA104	OPTICAL LINK IN	GP1FA502RZ
	JA105,JA106	OPTICAL LINK OUT	GP1FA502TZ
	CN705	FLEXIBLE CONNECTOR	SFW22R-2ST
	CN401	7P FFC CONNECTOR	VKN1411
	CN351	10P FFC CONNECTOR	VKN1600
	CN9304	ROM SOCKET	AKP7169

S DSP ASSY (AWK7720 for VSX-47TX)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC301		ADSST21065LKS-264
	IC101		AK4114VQ
	IC702		AYW7012
	IC304		AYW7014
	IC203		BA4558F-HT
	IC703,IC704		BU4094BCFV
	IC302,IC303		HY57V161610DTC-10
	IC402		IS61LV6416-12T
	IC202		IS62C256-45T
	IC403		IS63LV1024-12T
	IC201		PM4007A
⚠	IC305,IC415,IC713		PQ3DZ13
⚠	IC416		PQ7VZ5
	IC204		TC74HCT08AF
	IC406,IC409,IC717		TC74VHC00FT
	IC712		TC74VHC04FT
	IC111,IC413		TC74VHC08FT
	IC114,IC715,IC718		TC74VHC125FT
	IC716		TC74VHC126FT
	IC110		TC74VHC153FT
	IC112		TC74VHC157FT
	IC116		TC74VHC257FT
	IC711		TC74VHC32FT
	IC107		TC74VHC4040FT
	IC707,IC708		TC74VHC573FT
	IC404,IC407		TC74VHC74FT
	IC414		TC74VHCU04FT
	IC719-IC721		TC7SET08FU
	IC108,IC417		TC7SH04FU
	IC405,IC408		TC7SH86F
	IC115		TC7WH08FU
	IC104,IC105		TC7WU04F
	IC205		TK15420M
	IC401		XCA56367PV150
	IC701		M30620SAFP
	Q203,Q204		2SA1037K
⚠	Q101,Q210,Q212		2SB1197K
	Q201,Q202		2SC2412K
	Q208,Q209		2SC4081
⚠	Q213		2SD1781K
	Q102		DTC124EK
	Q211		RN1903
	D203		1SS355
	D202		KV1851

COILS AND FILTERS

Mark	No.	Description	Part No.
	F201	BAND PASS FILTER	ATF7027
	L114,L117,L201,L206,L207	CHIP FERRITE BEAD	ATL7002
	L303,L305-L307,L405-L407	CHIP FERRITE BEAD	ATL7002
	L409,L411,L701-L704	CHIP FERRITE BEAD	ATL7002
	L202		LCTA680J2520
	L102-L106,L108,L110,L118	CHIP SOLID INDUCTOR	QTL1013
	L120,L203,L204,L413	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C166,C231,C441,C442		CCSRCH150J50
	C120,C128,C165		CCSRCH220J50
	C272		CCSRCH221J50
	C119,C127		CCSRCH470J50
	C216		CCSRCH561J50
	C211		CCSRCH750J50
	C103,C111,C124,C132,C143		CEAT101M16
	C153,C167,C234		CEAT101M16
	C183,C312,C316,C703		CEAT101M6R3
	C220		CEAT470M10
	C207,C209,C219,C254		CEAT470M16
	C476,C485		CEHAZA101M10
	C158,C161		CEHAZA470M16
	C302		CEHAZL101M25
	C306,C309,C447,C448,C701		CEJQ101M6R3
	C704		CEJQ101M6R3
	C481,C482,C718,C744,C745		CEJQ470M16
	C229		CEJQNP4R7M25
	C164		CFTYA474J50
	C223,C224,C456		CKSQYB105K10
	C222,C323,C325,C331,C334		CKSRYB102K50
	C336,C341,C349,C351,C364		CKSRYB102K50
	C423,C430,C452,C455,C462		CKSRYB102K50
	C464,C469,C471		CKSRYB102K50
	C104,C108,C112,C116,C117		CKSRYB103K50
	C123,C125,C131,C139,C202		CKSRYB103K50
	C214,C232,C233,C273,C454		CKSRYB103K50
	C458		CKSRYB103K50
	C105,C109,C113,C121,C129		CKSRYB104K16
	C141,C144,C155,C156,C160		CKSRYB104K16
	C168,C172,C174,C176,C178		CKSRYB104K16
	C185,C189,C191,C204-C206		CKSRYB104K16
	C208,C210,C212,C213,C215		CKSRYB104K16
	C225-C228,C230,C235,C237		CKSRYB104K16
	C240-C242,C244,C248		CKSRYB104K16
	C251,C252,C255,C257,C304		CKSRYB104K16
	C315,C318,C320,C322,C328		CKSRYB104K16
	C330,C338,C340,C343		CKSRYB104K16
	C346,C347,C354,C356,C357		CKSRYB104K16
	C360,C362,C366,C368,C384		CKSRYB104K16

Mark	No.	Description	Part No.
	C388-C391,C393,C395,C398		CKSRYB104K16
	C400,C401,C403,C405,C407		CKSRYB104K16
	C410,C422,C424,C427,C429		CKSRYB104K16
	C431,C434,C444,C446,C450		CKSRYB104K16
	C460,C461,C467,C473,C478		CKSRYB104K16
	C480,C484,C487,C702,C705		CKSRYB104K16
	C708,C710,C712,C713,C717		CKSRYB104K16
	C719,C721,C723,C725,C733		CKSRYB104K16
	C736,C737,C739,C741		CKSRYB104K16
	C746,C747,C749,C751-C756		CKSRYB104K16
	C203		CKSRYB223K50
	C154,C157,C159,C236		CKSRYB471K50
	C238,C239,C243,C247		CKSRYB471K50
	C249,C250,C253,C256,C305		CKSRYB471K50
	C317,C319,C321,C327,C329		CKSRYB471K50
	C337,C339,C345,C348,C353		CKSRYB471K50
	C355,C358,C359,C361,C365		CKSRYB471K50
	C367,C386,C387,C397,C402		CKSRYB471K50
	C404,C408,C443,C449,C451		CKSRYB471K50
	C453,C459,C463,C465,C466		CKSRYB471K50
	C468,C470,C472,C474,C477		CKSRYB471K50
	C479,C706,C707,C709,C716		CKSRYB471K50
	C748,C750		CKSRYB471K50
	C457		CKSRYB563K16

RESISTORS

Mark	No.	Description	Part No.
	R763		RAB4C0R0J
	R136,R196,R303,R311,R348		RAB4C101J
	R701,R712,R729,R730		RAB4C101J
	R320,R323,R324		RAB4C103J
	R175,R703,R713,R719,R722		RAB4C221J
	R771		RAB4C221J
	R345,R346,R368,R369		RAB4C330J
	R329,R330,R365,R376,R377		RAB4C470J
	R450		RAB4C470J
	R446,R454,R735-R738		RAB4C473J
	R356,R371,R372		RAB4C680J
	R133		RS1/16S1802D
	R467		RS1/16S3600F
	R468		RS1/16S7500F
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN706,CN707	FJ CONNECTOR 14P	14PL-FJ
	JA107	2P PIN JACK	AKB7148
	X201	CRYSTAL RESONATOR (18.432MHz)	ASS7009
	X101	CRYSTAL RESONATOR (24.576MHz)	ASS7025
	X401	CRYSTAL RESONATOR (33MHz)	ASS7040
	X701	CERAMIC RESONATOR (7.7MHz)	ASS7045
	CN704	2P VH SIDE CONNECTOR	B2PS-VH
	CN701,CN702	B TO B CONNECTOR 17P	BTEM17P-1R
	CN703	B TO B CONNECTOR 9P	BTEM9P-1R
	JA102-JA104	OPTICAL LINK IN	GP1FA502RZ
	JA105,JA106	OPTICAL LINK OUT	GP1FA502TZ
	JA108	1P PIN JACK (BLK, AU)	VKB1160
	CN401	7P FFC CONNECTOR	VKN1411
	CN351	10P FFC CONNECTOR	VKN1600
	CN9304	ROM SOCKET	AKP7169

T DSP3 ASSY (VSX-49TX Only)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC501		ADSST21065LKS-264
	IC502,IC503		HY57V161610DTC-10
	IC504		AYW7013
⚠	IC505		PQ3DZ13

COILS

Mark	No.	Description	Part No.
	L503,L505-L507	CHIP FERRITE BEAD	ATL7002

CAPACITORS

Mark	No.	Description	Part No.
	C502		CEHAZA101M10
	C506,C509,C512,C516		CEJQ101M16
	C523,C525,C531,C534,C536		CKSRYB102K50
	C541,C549,C551,C564		CKSRYB102K50
	C510		CKSRYB103K50
	C504,C507,C518,C520,C522		CKSRYB104K16
	C528,C530,C538,C540,C543		CKSRYB104K16
	C546,C547,C554,C556,C557		CKSRYB104K16
	C560,C562,C566,C568,C570		CKSRYB104K16
	C572,C573,C575,C584,C586		CKSRYB104K16
	C588,C590,C592,C594,C595		CKSRYB104K16
	C598		CKSRYB104K16
	C505,C517,C519,C521,C527		CKSRYB471K50
	C529,C537,C539,C545,C548		CKSRYB471K50
	C553,C555,C558,C559,C561		CKSRYB471K50
	C565,C567,C571,C574,C587		CKSRYB471K50
	C589,C597		CKSRYB471K50

RESISTORS

Mark	No.	Description	Part No.
	R503,R511,R582		RAB4C101J
	R520,R523,R524		RAB4C103J
	R565,R580,R581,R591,R592		RAB4C330J
	R560,R561,R563,R564		RAB4C470J
	R573-R575		RAB4C470J
	R588		RAB4C680J
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN501	16P SOCKET	AKP7122
	CN502	22P SOCKET	AKP7125
	CN551	10P FFC CONNECTOR	VKN1600
	CN9504	ROM SOCKET	AKP7169

U DAC10 ASSY (VSX-49TX Only)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC6021,IC6041,IC6061,IC6081		DF1706E
	IC6105,IC6106,IC6205,IC6206		NJM2068D
	IC6305,IC6306,IC6405,IC6406		NJM2068D
	IC6103,IC6104,IC6203,IC6204		NJM5534DD
	IC6303,IC6304,IC6403,IC6404		NJM5534DD
	IC6101,IC6102,IC6201,IC6202		PCM1704U-1
	IC6301,IC6302,IC6401,IC6402		PCM1704U-1
⚠	IC6001		PQ3DZ13
	IC6022,IC6042,IC6062,IC6082		TC94A07F

COILS

Mark	No.	Description	Part No.
	L6001,L6021,L6041,L6061,L6081	CHIP FERRITE BEAD	ATL7002

Mark	No.	Description	Part No.
	L6101-L6104,L6201-L6204	CHIP FERRITE BEAD	ATL7002
	L6301-L6304,L6401-L6404	CHIP FERRITE BEAD	ATL7002
	L6022,L6042,L6062,L6082	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C6147,C6148,C6247,C6248	(47μF/25V)	ACH7162
	C6347,C6348,C6447,C6448	(47μF/25V)	ACH7162
	C6031,C6032,C6051,C6052	(470μF/25V)	ACH7163
	C6071,C6072,C6091,C6092	(470μF/25V)	ACH7163
	C6026,C6046,C6066,C6086		CCSRCH101J50
	C6145,C6146,C6245,C6246		CCSRCH101J50
	C6345,C6346,C6445,C6446		CCSRCH101J50
	C6151,C6152,C6251,C6252		CCSRCH220J50
	C6351,C6352,C6451,C6452		CCSRCH220J50
	C6149,C6150,C6249,C6250		CCSRCH330J50
	C6349,C6350,C6449,C6450		CCSRCH330J50
	C6139,C6140,C6239,C6240		CEGA4R7M2A
	C6339,C6340,C6439,C6440		CEGA4R7M2A
	C6002,C6123,C6124,C6223,C6224		CEHAZA101M10
	C6323,C6324,C6423,C6424		CEHAZA101M10
	C6117,C6118,C6121,C6122		CEHAZL101M10
	C6127,C6128,C6217,C6218		CEHAZL101M10
	C6221,C6222,C6227,C6228		CEHAZL101M10
	C6317,C6318,C6321,C6322		CEHAZL101M10
	C6327,C6328,C6417,C6418		CEHAZL101M10
	C6421,C6422,C6427,C6428		CEHAZL101M10
	C6021,C6041,C6061,C6081		CEHAZL221M10
	C6113,C6114,C6213,C6214		CEHAZL471M16
	C6313,C6314,C6413,C6414		CEHAZL471M16
	C6001		CENA100M50
	C6103,C6104,C6109,C6110		CKSRYB103K50
	C6115,C6116,C6125,C6126		CKSRYB103K50
	C6203,C6204,C6209,C6210		CKSRYB103K50
	C6215,C6216,C6225,C6226		CKSRYB103K50
	C6303,C6304,C6309,C6310		CKSRYB103K50
	C6315,C6316,C6325,C6326		CKSRYB103K50
	C6403,C6404,C6409,C6410		CKSRYB103K50
	C6415,C6416,C6425,C6426		CKSRYB103K50
	C6022,C6033,C6034,C6042		CKSRYB104K16
	C6053,C6054,C6062,C6073,C6074		CKSRYB104K16
	C6082,C6093,C6094,C6119,C6120		CKSRYB104K16
	C6219,C6220,C6319,C6320		CKSRYB104K16
	C6419,C6420		CKSRYB104K16
	C6033,Z6034,C6053,C6054		CKSRYB222K50
	C6073,C6074,C6093,C6094		CKSRYB222K50
	C6023,C6043,C6063,C6083		CKSRYB471K50
	C6105-C6108,C6205-C6208		CKSRYB471K50
	C6305-C6308,C6405-C6408		CKSRYB471K50
	C6027,C6028,C6047,C6048		CKSRYB473K50
	C6067,C6068,C6087,C6088		CKSRYB473K50
	C6131-C6134,C6141-C6144		CKSRYB473K50
	C6231-C6234,C6241-C6244		CKSRYB473K50
	C6331-C6334,C6341-C6344		CKSRYB473K50
	C6431-C6434,C6441-C6444		CKSRYB473K50
	C6101,C6102,C6111,C6112	(47μF/10V)	RCH1139
	C6201,C6202,C6211,C6212	(47μF/10V)	RCH1139
	C6301,C6302,C6311,C6312	(47μF/10V)	RCH1139
	C6401,C6402,C6411,C6412	(47μF/10V)	RCH1139
	C6135,C6136,C6235,C6236	(470pF)	VCE1035
	C6335,C6336,C6435,C6436	(470pF)	VCE1035
	C6137,C6138,C6237,C6238	(220pF)	VCE1040
	C6337,C6338,C6437,C6438	(220pF)	VCE1040
	C6129,C6130,C6229,C6230	(100pF)	VCE1045
	C6329,C6330,C6429,C6430	(100pF)	VCE1045

RESISTORS

Mark	No.	Description	Part No.
	R6101,R6102,R6201,R6202	(2.55kΩ, 1/2W)	ACN7105
	R6301,R6302,R6401,R6402	(2.55kΩ, 1/2W)	ACN7105
⚠	R6031,R6032,R6051,R6052		RD1/4MUF470J
⚠	R6071,R6072,R6091,R6092		RD1/4MUF470J
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN6001,CN6002	FJ CONNECTOR14P	14R-FJ
	CN6004	17P SOCKET	KP200TA17L
	CN6003	7P SOCKET	KP200TA7L

U DAC8 ASSY (VSX-47TX Only)

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC6501-IC6504,IC6601-IC6604		NJM2068D
	IC6701-IC6704,IC6801-IC6804		NJM2068D
	IC6921,IC6941,IC6961,IC6981		PCM1738E-1
⚠	IC6901		PQ3DZ13
	IC6922,IC6942,IC6962,IC6982		TC94A07F

COILS

Mark	No.	Description	Part No.
	L6902,L6922,L6923,L6942,L6943	CHIP FERRITE BEAD	ATL7002
	L6962,L6963,L6982,L6983	CHIP FERRITE BEAD	ATL7002
	L6921,L6941,L6961,L6981	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C6515,C6516,C6615,C6616	(47μF/25V)	ACH7162
	C6715,C6716,C6815,C6816	(47μF/25V)	ACH7162
	C6513,C6514,C6613,C6614		CCSRCH101J50
	C6713,C6714,C6813,C6814,C6939		CCSRCH101J50
	C6959,C6979,C6999		CCSRCH101J50
	C6525,C6526,C6625,C6626		CCSRCH330J50
	C6725,C6726,C6825,C6826		CCSRCH330J50
	C6507-C6510,C6607-C6610		CCSRCH221J50
	C6707-C6710,C6807-C6810		CCSRCH221J50
	C6901		CEAT100M50
	C6933,C6934,C6953,C6954		CEAT471M25
	C6973,C6974,C6993,C6994		CEAT471M25
	C6902,C6920,C6930,C6932,C6940		CEHAZL101M10

Mark	No.	Description	Part No.
	C6950,C6952,C6960,C6970,C6972		CEHAZL101M10
	C6980,C6990,C6992		CEHAZL101M10
	C6511,C6512,C6611,C6612		CENA4R7M50
	C6711,C6712,C6811,C6812		CENA4R7M50
	C6914,C6921,C6925,C6927,C6929		CKSRYB104K16
	C6931,C6941,C6945,C6947,C6949		CKSRYB104K16
	C6951,C6961,C6965,C6967,C6969		CKSRYB104K16
	C6971,C6981,C6985,C6987,C6989		CKSRYB104K16
	C6991		CKSRYB104K16
	C6922,C6942,C6962,C6982		CKSRYB471K50
	C6517-C6524,C6617-C6624		CKSRYB473K50
	C6717-C6724,C6817-C6824		CKSRYB473K50
	C6935,C6936,C6955,C6956		CKSRYB473K50
	C6975,C6976,C6995,C6996		CKSRYB473K50
	C6505,C6506,C6605,C6606		CKSRYB682K50
	C6705,C6706,C6805,C6806		CKSRYB682K50
	C6501-C6504,C6601-C6604 (4700pF/40V)		VCE1046
	C6701-C6704,C6801-C6804 (4700pF/40V)		VCE1046

RESISTORS

⚠	R6931,R6932,R6951,R6952		RD1/4MUF470J
⚠	R6971,R6972,R6991,R6992		RD1/4MUF470J
	R6501-R6504,R6601-R6604		RDR1/4VM6200F
	R6701-R6704,R6801-R6804		RDR1/4VM6200F
	R6927,R6947,R6967,R6987		RS1/16S1602D
	R6505-R6516,R6605-R6616		RS1/16S6200F
	R6705-R6716,R6805-R6816		RS1/16S6200F
	Other Resistors		RS1/16S□□□J

OTHERS

	CN6901,CN6902	FJ CONNECTOR 14P	14R-FJ
	CN6904	17P SOCKET	KP200TA17L
	CN6903	7P SOCKET	KP200TA7L

V POWER AMP (L) ASSY

SEMICONDUCTORS

⚠	IC4101,IC4401,IC4601		PA9008A
⚠	IC4102,IC4302,IC4402,IC4602		PBD001A
⚠	IC4103,IC4403,IC4603		PBD002A
	Q4101,Q4301,Q4401,Q4601		2SA1255
	Q4801,Q4803,Q4805		2SC2412K
	Q4102,Q4402,Q4602		2SC3138
	Q4104,Q4204,Q4304,Q4404,Q4604		2SC3326
	D4103-D4106,D4305,D4403-D4406		1SS355
	D4603-D4606		1SS355
	D4801		UDZ2.7B
	D4101,D4102,D4401,D4402		UDZS7.5B
	D4601,D4602		UDZS7.5B

CAPACITORS

	C4110,C4111,C4410,C4411		CCSRCH220J50
	C4610,C4611		CCSRCH220J50
	C4101,C4401,C4601		CEAT101M10
	C4809		CEAT221M16
	C4115,C4116,C4415,C4416		CEAT221M63
	C4615,C4616		CEAT221M63
	C4109,C4409,C4609		CEAT470M16

Mark	No.	Description	Part No.
	C4801,C4803		CEAT471M63
	C4103,C4403,C4603		CEHAT102M10
	C4106-C4108,C4406-C4408		CEHAT470M16
	C4606-C4608		CEHAT470M16
	C4104,C4105,C4404,C4405		CFTLA104J2A
	C4604,C4605		CFTLA104J2A
	C4112,C4113,C4412,C4413		CFTYA224J50
	C4612,C4613		CFTYA224J50
	C4102,C4402,C4602		CKSRYB221K50

RESISTORS

⚠	R4110,R4111,R4125,R4126,R4310 (0.1Ω)		ACN7107
⚠	R4325,R4410,R4411,R4425,R4426 (0.1Ω)		ACN7107
⚠	R4610,R4611,R4625,R4626 (0.1Ω)		ACN7107
	R4117,R4417,R4617		RDR1/4VM103J
	R4104,R4404,R4604		RDR1/4VM220J
	R4103,R4403,R4603		RDR1/4VM331J
	R4127,R4128,R4327,R4427,R4428		RS1/16S1001F
	R4627,R4628		RS1/16S1001F
	R4129,R4130,R4329,R4429,R4430		RS1/16S1003F
	R4629,R4630		RS1/16S1003F
	R4116,R4133,R4134,R4316,R4333		RS1/16S1004F
	R4416,R4433,R4434,R4616		RS1/16S1004F
	R4633,R4634		RS1/16S1004F
	R4112,R4113,R4312,R4412,R4413		RS1/16S1502F
	R4612,R4613		RS1/16S1502F
	R4114,R4115,R4314,R4414,R4415		RS1/16S1503F
	R4614,R4615		RS1/16S1503F
	R4131,R4132,R4331,R4431,R4432		RS1/16S3902F
	R4631,R4632		RS1/16S3902F
⚠	R4118,R4418,R4618		RS1LMF2R2J
	Other Resistors		RS1/16S□□□J

OTHERS

	J4801	LEAD WITH HOUSING	ADX7370
	CN4812	2P CONNECTOR	B02B-XASK-1
	CN4803	11P PLUG	KM250NA11L
	CN4805	15P PLUG	KM250NA15L
	CN4801	8P CONNECTOR	S08B-XASK-1
	4801,4803,4805	SCREW TERMINAL	VNE1949
	4809	EARTH METAL FITTING	VNF-091

W POWER AMP (C) ASSY

SEMICONDUCTORS

⚠	IC4301		PA9008A
	D4303,D4304		1SS355
	D4301,D4302		UDZS7.5B

CAPACITORS

	C4310,C4311		CCSRCH220J50
	C4315,C4316		CEAT221M63
	C4309		CEAT470M16
	C4301		CEHAT101M10
	C4303		CEHAT102M10
	C4306-C4308		CEHAT470M16
	C4304,C4305		CFTLA104J2A
	C4312,C4313		CFTYA224J50
	C4302		CKSRYB221K50

Mark	No.	Description	Part No.
RESISTORS			
	R4317		RDR1/4VM103J
	R4304		RDR1/4VM220J
	R4303		RDR1/4VM331J
⚠	R4318		RS1LMF2R2J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN4808	13P SOCKET	KP250NA13
	CN4807	15P SOCKET	KP250NA15

X POWER AMP (R) ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC4201,IC4501,IC4701		PA9008A
⚠	IC4202,IC4502,IC4702		PBD001A
⚠	IC4203,IC4303,IC4503,IC4703		PBD002A
	Q4201,Q4501,Q4701		2SA1255
	Q4802,Q4804,Q4806		2SC2412K
	Q4202,Q4302,Q4502,Q4702		2SC3138
	Q4504,Q4704		2SC3326
	D4203-D4206,D4306,D4503-D4506		1SS355
	D4703-D4706		1SS355
	D4802		UDZ2.7B
	D4201,D4202,D4501,D4502		UDZS7.5B
	D4701,D4702		UDZS7.5B
CAPACITORS			
	C4210,C4211,C4510,C4511		CCSRCH220J50
	C4710,C4711		CCSRCH220J50
	C4201,C4501,C4701		CEAT101M10
	C4810		CEAT221M16
	C4215,C4216,C4515,C4516		CEAT221M63
	C4715,C4716		CEAT221M63
	C4209,C4509,C4709		CEAT470M16
	C4802,C4804		CEAT471M63
	C4203,C4503,C4703		CEHAT102M10
	C4206-C4208,C4506-C4508		CEHAT470M16
	C4706-C4708		CEHAT470M16
	C4204,C4205,C4504,C4505		CFTLA104J2A
	C4704,C4705		CFTLA104J2A
	C4212,C4213,C4512,C4513		CFTYA224J50
	C4712,C4713		CFTYA224J50
	C4202,C4502,C4702		CKSRYB221K50
RESISTORS			
⚠	R4210,R4211,R4225,R4226,R4311 (0.1Ω)		ACN7107
⚠	R4326,R4510,R4511,R4525,R4526 (0.1Ω)		ACN7107
⚠	R4710,R4711,R4725,R4726 (0.1Ω)		ACN7107
	R4217,R4517,R4717		RDR1/4VM103J
	R4204,R4504,R4704		RDR1/4VM220J
	R4203,R4503,R4703		RDR1/4VM331J
	R4227,R4228,R4328,R4527,R4528		RS1/16S1001F
	R4727,R4728		RS1/16S1001F
	R4229,R4230,R4330,R4529,R4530		RS1/16S1003F
	R4729,R4730		RS1/16S1003F
	R4216,R4233,R4234,R4334,R4516		RS1/16S1004F
	R4533,R4534,R4716,R4733,R4734		RS1/16S1004F
	R4212,R4213,R4313,R4512,R4513		RS1/16S1502F
	R4712,R4713		RS1/16S1502F
	R4214,R4215,R4315,R4514,R4515		S1/16S1503F
	R4714,R4715		RS1/16S1503F
	R4231,R4232,R4332,R4531,R4532		RS1/16S3902F
	R4731,R4732		RS1/16S3902F
⚠	R4218,R4518,R4718		RS1LMF2R2J
	Other Resistors		RS1/16S□□□J
OTHERS			
	J4802	LEAD WITH HOUSING	ADX7371
	CN4813	2P CONNECTOR	B02B-XASK-1
	CN4806	13P PLUG	KM250NA13L
	CN4804	9P PLUG	KM250NA9L
	CN4802	6P CONNECTOR	S06B-XASK-1
	4802,4804,4806	SCREW TERMINAL	VNE1949
	4810	EARTH METAL FITTING	VNF-091

Y POWER AMP (BR) ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	Q4303,Q4403		2SC2412K
	Q4103		DTA124EK
	D4806		1SS355
	D4805		UDZS5.1B
CAPACITOR			
	C4812		CKSRYF105Z10
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	J4803	BOARD IN WIRE	ADX7372
	CN4809	11P SOCKET	KP250NA11
	CN4810	9P SOCKET	KP250NA9
	CN4811	8P CONNECTOR	S08B-XASK-1

Z POWER AMP (G) ASSY

Mark	No.	Description	Part No.
OTHERS			
	J4804	BOARD IN WIRE	ADX7363
	4807,4808	EARTH METAL FITTING	VNF-091

AA LOCAL SUPPLY ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC4047 (315mA)		AEK7003
⚠	IC4023,IC4024 (500mA)		AEK7005
	IC4045,IC4046 (500mA)		AEK7005
⚠	IC4036 (1A)		AEK7009
	IC4035 (1.25A)		AEK7010
⚠	IC4011		LM1085IT-5.0
⚠	IC4021,IC4031		LM2940CT-5.0
⚠	IC4041		NJM7820FA
⚠	IC4043		NJM78M15FA
⚠	IC4033		NJM78M56FA

Mark	No.	Description	Part No.
⚠	IC4042		NJM7918FA
⚠	IC4022,IC4032		NJM79M05FA
	Q4054		2SA1037K
⚠	Q4022,Q4052		2SB951A
⚠	Q4021,Q4051		2SD1277A
	Q4053		2SK1132
	D4031,D4032,D4057		1SS355
⚠	D4003,D4004		D3SBA20(B)
	D4041		HZU2.2B
⚠	D4002,D4005		S1VB20/F03
	D4059,D4060		UDZ12B
	D4051-D4054		UDZ15B
	D4055,D4056		UDZ16B

CAPACITORS

	C4003 (1µF/250V)	ACE7036
	C4051,C4052 (2200µF/71V)	ACH7117
	C4011 (333µF/16V)	ACH7159
	C4053,C4054	CEAT101M63
	C4023,C4024	CEAT471M16
	C4021,C4022,C4032	CEAT472M16
	C4041,C4042	CEAT472M35
	C4031	CEAT682M16
	C4045-C4047	CEJQ100M50
	C4055,C4056	CEJQ100M63
	C4013,C4035,C4036,C4038	CEJQ101M6R3
	C4025,C4026,C4029,C4030	CEJQ470M16
	C4039,C4040,C4049	CEJQ470M16
	C4002	CFTLA474J2A
	C4001	CFTYA105J50
	C4057	CKSRYB102K50
	C4043,C4044,C4048	CKSRYB103K50
	C4012,C4027,C4028,C4033,C4034	CKSRYB104K16
	C4037	CKSRYB104K16
	C4061-C4064	CKSRYB473K16

RESISTORS

⚠	R4003	RD1/2MMF470J
⚠	R4021,R4022	RD1/4MUF151J
⚠	R4001,R4002	RD1/4MUF330J
⚠	R4051,R4052	RD1/4MUF472J
	Other Resistors	RS1/16S□□□J

OTHERS

J4001	2P CONNECTOR ASSY	ADX7369
J4004	6P CONNECTOR ASSY	ADX7373
J4002	4P CONNECTOR ASSY	ADX7374
CN4002	3P CONNECTOR	B03B-XASK-1
CN4001	8P CONNECTOR	B08B-XASK-1
CN4004	9P CONNECTOR	B09B-XASK-1
KN4001,KN4002	EARTH METAL FITTING	VNF1084

AB AC PRIMARY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1103		BU4094BC
⚠	IC1101		NJM78M56FA
⚠	IC1102		NJM79M24FA
	Q1102		2SB1197K
	Q1101		2SC2412K
	Q1103		DTC124EK
	D1103,D1106		1SS355
⚠	D1101		S1VB20/F03
	D1102		UDZS5.1B

COILS

L1101,L1102	NOISE FILTER	RTF1167

TRANSFORMER

⚠	T1101	ATT7043

CAPACITORS

C1107	CCSRCH101J50
C1109	CEAT100M50
C1103,C1104	CEAT101M10
C1102	CEAT222M25
C1110	CEAT470M25
C1101	CFTYA104J50
C1106	CKSRYB104K16
C1105	CKSRYB473K16

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

	CN1105	3P JUMPER CONNECTOR	52151-0310
⚠	CN1101	6P SOCKET	AKP7141
	CN1104	FFC CONNECTOR 14P	HLEM14R-1
	CN1102	7P SOCKET	KP250NA7
	CN1103	8P SOCKET	KP250NA8
	KN1101	EARTH METAL FITTING	VNF1084

AC POWER SW ASSY

SWITCH

⚠	S1301	ASG7024

CAPACITORS

C1301,C1302	CFTLA103J50

OTHERS

CN1301	3P JUMPER CONNECTOR	52147-0310

AD SP (A) ASSY

SEMICONDUCTORS

Q1201,Q1203,Q1205,Q1207,Q1209	DTA124EK
Q1202,Q1204,Q1206,Q1208,Q1210	DTC124EK
D1201-D1210	1SS355

COILS

L1201-L1207	AF CHOKE COIL	ATH1053

RELAYS

RY1201-RY1205	ASR7001

CAPACITORS

Mark	No.	Description	Part No.
	C1201-C1207		CQHA102J2A

RESISTORS

Mark	No.	Description	Part No.
⚠	R1231-R1237		RD1/4MUF100J
⚠	R1211,R1212		RS2LMF331J
	R1221-R1225		RS1/16S124J

OTHERS

Mark	No.	Description	Part No.
	J1201	BOARD IN WIRE	ADX7362
	J1206	3P CONNECTOR ASSY	ADX7364
	J1207,J1208	1P WIRE	ADX7368
⚠	CN1202	8P SPEAKER TERMINAL	AKE7074
⚠	CN1201	6P SPEAKER TERMINAL	AKE7075
	CN1206	FFC CONNECTOR 4P	HLEM4S-1
	CN1205	8P PLUG	KM250NA8L

AE FL SUPPLY ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	Q1901		2SC5174P
	D1901,D1902		UDZ22B

CAPACITORS

Mark	No.	Description	Part No.
	C1901-C1903		CEJQ100M50

RESISTORS

Mark	No.	Description	Part No.
⚠	R1901		RD1/4MUF272J
	R1902		RS1/16S470J

OTHERS

Mark	No.	Description	Part No.
	CN1902	4P JUMPER CONNECTOR	52147-0410
	CN1901	4P CONNECTOR	B04B-XASK-1

AF STANDBY ASSY

SWITCH

Mark	No.	Description	Part No.
	S1901		ASG7013

OTHERS

Mark	No.	Description	Part No.
	CN1903	3P FFC CONNECTOR	52044-0345

AG POSISTER (L) ASSY

OTHERS

Mark	No.	Description	Part No.
	J1901	2P CONNECTOR ASSY	ADX7365
⚠	TH1901	POSISTOR	AEX7006

AH POSISTER (R) ASSY

OTHERS

Mark	No.	Description	Part No.
	J1902	2P CONNECTOR ASSY	ADX7365
⚠	TH1902	POSISTOR	AEX7006

AI DSP DIODE ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
⚠	D1903		D5SBA20(B)

OTHERS

Mark	No.	Description	Part No.
	CN1904	4P CONNECTOR	S04B-XASK-1

AJ SP (B) ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q1004		DTA124EK
	Q1002,Q1003		DTC124EK
	Q1001		DTC143EK
	D1001-D1006		1SS355

COIL

Mark	No.	Description	Part No.
⚠	L1001	LINE FILTER	ATF7018

RELAYS

Mark	No.	Description	Part No.
	RY1003		ASR7001
⚠	RY1002		ASR7016
⚠	RY1001		ASR7022

CAPACITORS

Mark	No.	Description	Part No.
⚠	C1001,C1002 (0.01μF/AC250V)		ACG7033
	C1003,C1004		CQHA102J2A

RESISTORS

Mark	No.	Description	Part No.
⚠	R1001,R1002 (15Ω, 10W)		ACN7104
⚠	R1003 (2.2MΩ, 1/2W)		RCN1080
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
⚠	CN1006	4P SPEAKER TERMINAL	AKE7076
⚠	CN1001	6P PLUG	AKM7056
⚠	1004	1P AC OUTLET	AKP1033
	H1001,H1002	FUSE HOLDER	AKR1007
	CN1005	7P PLUG	KM250NA7L
⚠	CN1002	AC CORD SOCKET	RKP1751
⚠	CN1003	AMP U-P CONNECTOR	RKP1834
	1001	SCREW TERMINAL	VNE1948

AK DIODE ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	D1501		KCH30A15
⚠	D1502		KRH30A15

CAPACITOR

Mark	No.	Description	Part No.
	C1501 (1μF/250V)		ACE7036

RESISTOR

Mark	No.	Description	Part No.
⚠	R1501		RD1/2MMF470J

OTHERS

Mark	No.	Description	Part No.
	J1501	BOARD IN WIRE	ADX7358
	J1502	BOARD IN WIRE	ADX7359
	J1503	BOARD IN WIRE	ADX7360
	J1504	BOARD IN WIRE	ADX7361

Mark	No.	Description	Part No.

AL FUSE ASSY

OTHERS

	H1801-H1810	FUSE CLIP	AKR1004
	CN1803	4P CONNECTOR	B04B-XASK-1
	CN1802	8P CONNECTOR	B08B-XASK-1
	CN1801	12P CONNECTOR	S12B-XASK-1

AM TRANS (A) ASSY

CAPACITOR

	C1601		CFTYA105J50

RESISTOR

⚠	R1601		RD1/4MUF100J

OTHERS

	CN1601	5P CONNECTOR	B05B-XASK-1

AN TRANS (B) ASSY

SEMICONDUCTORS

⚠	IC1703	PROTECTOR (750mA)	AEK7007
⚠	D1701		S1VB20/F03
	D1702		UDZS7.5B

CAPACITORS

	C1701		CEAT331M50
	C1702		CEJQ101M10

RESISTORS

⚠	R1703-R1706		RS1/16S2R2J
	R1701,R1702		RS1/16S683J

OTHERS

	CN1701	3P CONNECTOR	B03B-XASK-1
	CN1702	7P CONNECTOR	B07B-XASK-1
	H701-H704	FUSE CLIP	AKR1004

6. ADJUSTMENT

There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 Test Mode

• How to Enter the Test Mode

With the attached Remote Control Unit.

1. Press the [REMOTE SETUP]+[1] keys simultaneously to enter the "SECRET" mode.
   LCD displays the "SECRET [DVD/LD]"
2. Press the [△]+[▽]+[VCR2] keys simultaneously to enter the Test Mode.
   LCD displays the "SECRET [VCR2]".

1. Test Mode ON (Press [C] key)

- Set the function to CD.
- Set the signal selection to AUTO.
- Set the tuner-preset data.
- Set speaker A to ON and speaker B to OFF.
- Set the BASS and TREBLE to +6.
- Set the remaining items to their factory settings.

Display: TEST MODE

2. Test Mode OFF (Press [0] key)

When you quit Test mode, the unit automatically enters STANDBY status.

Note: Do NOT quit Test mode by disconnecting the power cord. Doing so prevents factory-set data from being written to EEPROM to backup the data.

3. Items to be checked in Test mode

For checking the main unit of a product: Remote control codes A55F+A500 ([1] key) through A509 ([0] key).

1. FL display check (Press [1] key)

Normal display → All FLs and LEDs on → All FLs and LEDs off → Normal display→ . . .

Display transition:
TEST MODE → FL ALL ON → FL ALL OFF → TEST MODE

2. Bass and treble operations (Press [4] key)

Each time this code is issued, the bass and treble values change.
In modes (THX, Direct, Multichannel-Direct) in which tone control is invalid, the display also changes as shown below.
To use, select a mode (Standard, etc.) in which tone control is valid.

Display transition:
TRE/BASS 0dB → TRE/BASS MAX → TRE/BASS 0dB

Remarks:
In Test mode, the bass and treble keys on the main unit functions as follows:

+ : 0 dB → +6 dB → 0 dB → +6 dB, . . .
– : 0 dB → – 6 dB → 0 dB → – 6 dB, . . .

3. Master volume switching (Press [5] key)

When this code is issued, the master volume changes.
Trimming of all channels becomes 0 dB at this time.

Display transition:
TEST VOL MIN → TEST VOL MAX → TEST VOL MIN

4. Tuner 9K/10K switching (Press [6] key)

When this code is issued, the reception frequency interval of the tuner cyclically changes.
The code is valid only with models (SD models) having 9K/10K switching capability.

Display transition:
TEST TUN 9K → TEST TUN 10K → TEST TUN 9K

5. FAN ON/OFF (Press [8] key)

When this code is issued, the fan turns on or off.
The code is valid only with models having a fan.

Display transition: FAN OFF → FAN ON

OFF	: Fan stops.
ON	: Fan operates.

6. Microphone input check (Press [9] key)

When this code is issued, Direct mode is selected (a path that bypasses DSP), and a microphone input signal will be output from the pre-output on the front panel.

- Set the function to CD.
- Set the signal selection to AUTO.

Display transition: TEST MIC CHECK

7. RS232C operation check (Press [2] key)

When this code is issued, the RS-232C transmission port is switched to act as a general-purpose port, and self-check of data input/output ports is performed.
The signal ("L" output) at the data output port is read to the data-input port and checked as to whether it is correct or not. "H" is output from the CTS port.

If the port self-check successfully ends:

Display: MAIN RS232C OK

If the port self-check fails:

Display: MAIN RS232C NG

8. Tuner: Auto scan (Press [3] key)

When this code is issued, an auto scan operation begins.
The step of frequency increment is forcibly set to 9K.
If the function is not Tuner, it is switched to Tuner, then auto scanning starts from 88.5 MHz FM in the + direction.
When the code is issued again, auto scan starts from 1062 kHz AM in the – direction.

The reception points on the line:
AM : 1008 kHz
FM : 89 MHz

* If this code is issued during auto scanning, it merely causes the operation to stop. Issue the code again to resume auto scanning.

9. Video converter operation check (Press [7] key)

When this code is issued, All-through mode will be selected.
The video converter operation is deactivated.
The following assignment will be made for component connectors 1 to 3 and D4 connectors 1 and 2.

Component 1 : DVD/LD
Component 2 : TV/DVD
Component 3 : VCR2
D4-1 : SAT
D4-2 : VCR1/DVR

For checkers: Remote control codes other than A55F+A500 ([1] key) through A509 ([0] key).

4. DSP Microcomputer Test Mode

232C Test Mode

Overview

This test is for checking the operations of the buffer IC in the 232C block.
Signal supplied to pin 36 of the DSP microcomputer will be output from pins 35 and 38.

To enter this mode

You may enter 232C test mode using an identification code for serial transmission.
Identification code: 55h

5. Display Microcomputer Test Mode

1. Test Mode ON
With pin 17 of PD5686 (M38B5) set to 5 V, set pin 10 (RESET) from 5 V to GND, then back to 5 V. Enter the Test Mode for checker.

2. How to check
Switch the mode using remote control code (k_afunc=A555) from SR_IN and MR_IN.

1. FL/LED ALL ON
↓
2. FL/LED ALL OFF
↓
3. FLSW OFF
↓
4. FLSW ON
↓
5. MRSW OFF
↓
6. MRSW ON
↓
Returns to 1

7.1.2 Protection Circuit Control Specifications

Microcomputer-related ports

TRANS_DET (pin 87)
Input port : To detect temperature rise at the transformer
Active: "L"

TEMP1 (pin 94)
Input port : To detect temperature rise at the heat sink
Active: "H"

FAN_DET (pin 21)
Input port : To detect forcible fan stop
Active: "H"

OL_DET (pin 73)
Input port : To detect overloading at the amplifier (Interrupt port)
Active: "H"

DC_DET (pin 49)
Input port : For DC detection
Active: "H"

FAN_DRIVE (pin 86)
Output port : For fan on/off
H"= ON, "L"= OFF

AMUTE (pin 66)
Output port : For system muting on/off
H"= ON, "L"= OFF

EXP_DT2 (pin 58)/EXP_CLK2 (pin 59)/EXP_OE2 (pin 60)/ EXP_ST2 (pin 61)
Output ports : Data on the extension IC for relay control (IC1103 of the AC PRIMARY assembly).
The protection relays mentioned below include all the relays within the SP(B) assembly except RY1001 and RY1002.

The following control processes are activated immediately before the relay system is turned on upon power-on. The time is 4.8 seconds after power-on. (Control of the relay system is enabled 5.2 seconds after power-on.)
Only DC detection is enabled 2 seconds after power-on to activate it before other protection functions.

(1) Fan control

Valid with European and other general-area models only.

① Fan on/off
If the temperature at the heat sink rises, the TEMP1 port becomes "H." Detecting "H," the microcomputer starts the fan. No indication is made on the FL display.

② Fan detection
If the fan is forcibly stopped, the FAN_DET port becomes "H." Detecting "H," the microcomputer performs the following operations:
1. System muting on
2. Protection relays off

The warning indication "FAN STOP" appears (flashing) on the FL display.
If this status continues for more than 3 seconds, the power is turned off (for Standby mode).

If the port becomes "L" within 3 seconds, the unit resets automatically.

(2) Transformer temperature rise control

Valid with European and Japanese domestic models only.

European models

If the temperature at the transformer rises, the TRANS_DET port becomes "L."

Detecting "L," the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

As long as the detection port remains "L," statuses 1 and 2 are maintained.

When the port becomes "H" (when the temperature at the transformer drops), statuses 1 and 2 are canceled, and the unit resets automatically (automatic reset is requested by safety regulations).

The warning indication "THERMAL" appears on the FL display.

(3) Temperature detection

Valid with North American and Japanese domestic models only.

The process mentioned in (1) is performed with European and other general-area models.

If the temperature at the heat sink rises, the TEMP1 port becomes "H." Detecting "H," the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

The warning indication "THERMAL" appears on the FL display.

If this status continues for more than 3 seconds, the power is turned off (for Standby mode).

If the port becomes "L" within 3 seconds, the unit resets automatically.

(4) Overload detection (abnormality detection)

If the speaker terminals are short-circuited or low-load driving is detected, the OL_DET port becomes "H."

Detecting "H" in an interrupt process, the microcomputer performs the following operations:

1. System muting on
2. All relays off (expander output off)
   The expander output is turned off to perform detection during the interrupt. As the AC relay is also turned off, no warning indication appears on the FL display.
3. Power off (Standby mode)

(5) DC detection (defect detection)

Only DC detection is enabled 2 seconds after power-on.

If there is a fault in the power amplifier or a high-level signal lower than5 Hz is input, the DC_DET port becomes "H."

Detecting "H," the microcomputer performs the following operations:

1. System muting on
2. Protection relays off

The warning indication "AMP ERR" appears on the FL display.

If this status continues for more than 3 seconds, the power is turned off (for Standby mode).

If the port becomes "L" within 3 seconds, the unit resets automatically.

When the power is turned off owing to DC detection (also when a user prompted by the warning indication turns off the switch on the primary side), key inputs are disabled for 60 seconds.

The microcomputer backs up the value of the 60-second timer. The unit will only enter Standby mode, and power will not be turned on within 60 seconds in response to a key input after power-off on the primary side. (When the switch on the primary side is turned on again, key inputs will be limited for 60 seconds even if the timer value is less than 60 seconds.)

After DC detection, power-on from the multiroom side is also disabled for 60 seconds.

If the unit resets within 3 seconds (before the power is turned off) after DC detection, the normal operation is restored.

(6) Diagnostic mode

This mode is only for servicing and checking the circuit design, and not open to users.

When the DNR key and VSEL key are both held pressed for 3 seconds in Standby mode, the power is turned on, and the number of times of each defect or abnormality detection is sequentially displayed on the FL display.

Displayed items:

- DC detection
- Overload detection
- Fan detection
- Temperature detection

Hold the DNR key and VSEL key pressed for 3 seconds in Standby mode.

```
PROTECT CHECK
DC          003
      ↓
PROTECT CHECK
OVER        000
      ↓
PROTECT CHECK      * With models other than North
FAN         000      American models
      ↓
PROTECT CHECK      * With North American and
TEMP        000      Japanese domestic models
```

There is no specific mode for clearing the above-mentioned diagnostic mode.

Diagnostic mode is only cleared with an all-reset operation.

• Protection process list

Item	Purpose	Detection Method	Process	Warning Indication	Remarks	North America	Japan	Europe	General Areas
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_DET port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "AMP ERR" for 3 seconds	Once detected, key inputs are disabled for 60 seconds. If the DC_DET port becomes "L" within 3 seconds, the unit resets automatically.	O	O	O	O
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the AMP_OL port becomes "H" (checks by interrupt).	Turns muting on and all relays off, and immediately turns off the power.	None		O	O	O	O
Fan control	Protection function against a temperature rise at the heat sink	Detects when the TEMP1 port becomes "H" (checks by interrupt).	Rotates the fan.	None	The fan stops when the TEMP1 port becomes "L."	X	X	O	O
Fan stop (models with a fan and J models only)	To know that the rotating fan is forcibly stopped	Detects when the FAN_DET port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "FAN STOP" for 3 seconds	If the FAN_DET port becomes "L" within 3 seconds, the unit resets automatically.	X	O	O	O
Transformer temperature detection (1)	Protection function against a temperature rise in the transformer	Detects when the TRANS_DET port becomes "L."	Turns muting on and protection relays off.	Indicating "THERMAL"	If the TRANS_DET port becomes "H," the unit resets automatically.	X	X	O	X
Transformer temperature detection (2)	Protection function against a temperature rise at the transformer	Detects when the TRANS_DET port becomes "L."	Rotates the fan.	None	The fan stops when the TRANS_DET port becomes "L."	X	O	X	X
Temperature detection	Protect function against a temperature rise at the heat sink	Detects when the TEMP1 port becomes "H."	Turns muting on and protection relays off, then turns off the power after 3 seconds.	Flashing "THERMAL" for 3 seconds	If the TEMP1 port becomes "L" within 3 seconds, the unit resets automatically.	O	O	X	X

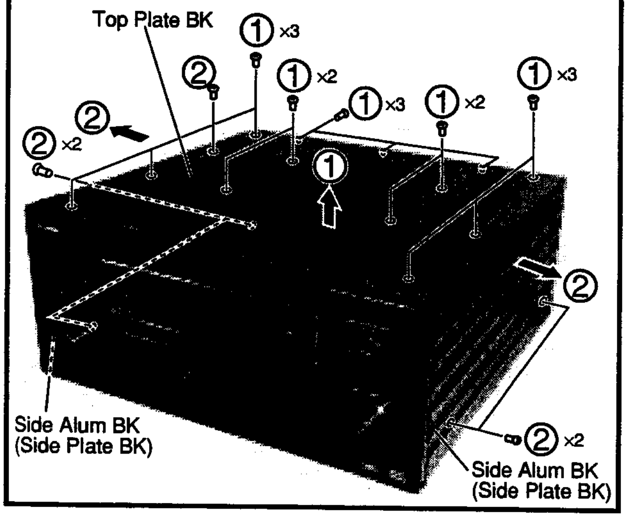
Note: Reset and key input are enabled after DC detection, as the DC detection circuit is designed to detect DC as well as low frequencies (lower than 5 Hz) and the warning may be caused by something other than a defect.

7.1.3 DISASSEMBLY

1 Exterior Block

① Remove the Top Plate BK (Screws × 13)

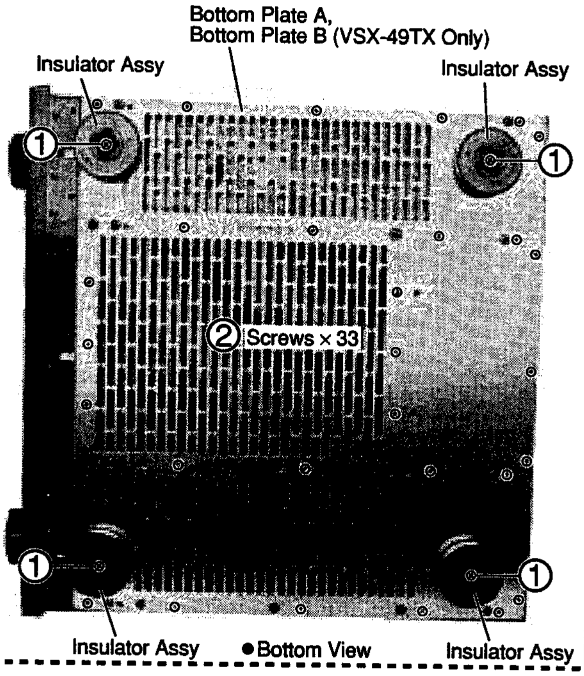
② Remove the Side Alum BK (Screws × 5)(for VSX-49TX)
Remove the Side Plate BK (Screws × 5)(for VSX-47TX)


Top Plate BK
① ×3
②
① ×2
① ×3
① ×2
① ×3
②
② ×2
①
②
Side Alum BK
(Side Plate BK)
② ×2
Side Alum BK
(Side Plate BK)

2 Heat Sink Block

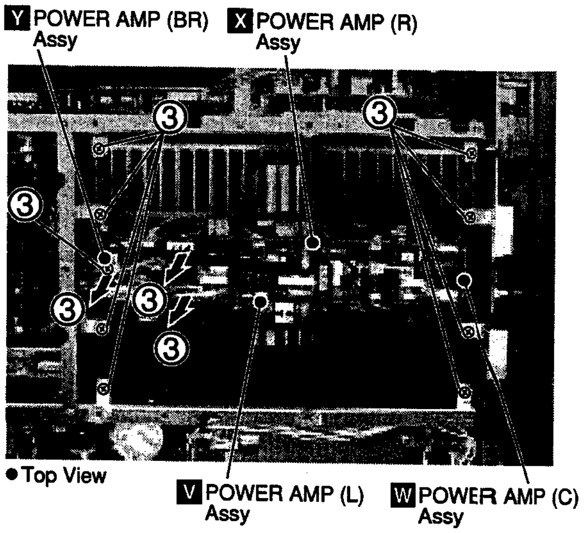
① Remove the Insulator Assy (Screws × 4)

② Remove the Bottom Plate A and Bottom Plate B (Screws × 33)


Bottom Plate A,
Bottom Plate B (VSX-49TX Only)
Insulator Assy
Insulator Assy
①
①
② Screws × 33
①
①
Insulator Assy
Insulator Assy

●Bottom View

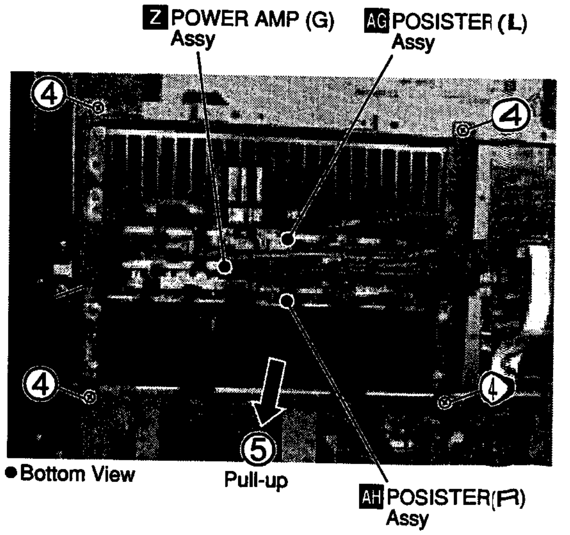
③ Remove 9 screws and three connectors


Y POWER AMP (BR) Assy
X POWER AMP (R) Assy
③
③
③
③
③
③
V POWER AMP (L) Assy
W POWER AMP (C) Assy

●Top View

④ Remove four screws

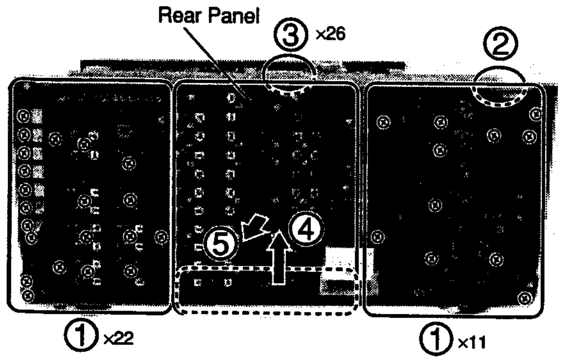
⑤ Remove the Heat Sink Block

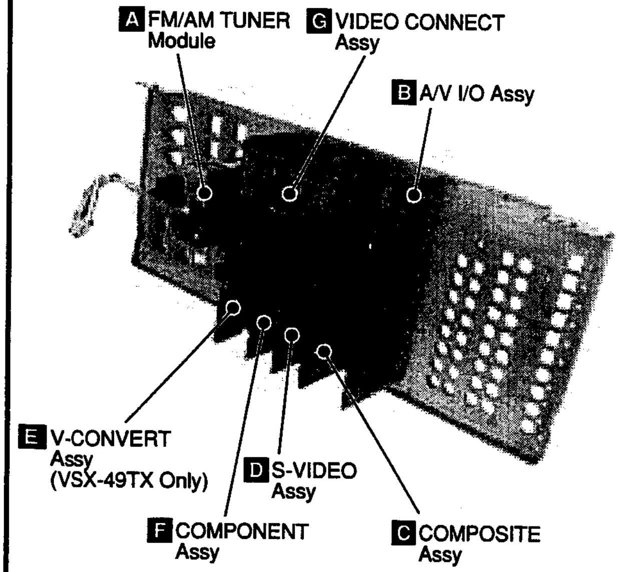

Z POWER AMP (G) Assy
AG POSISTER (L) Assy
④
④
④
④
⑤
Pull-up
AH POSISTER(R) Assy

●Bottom View

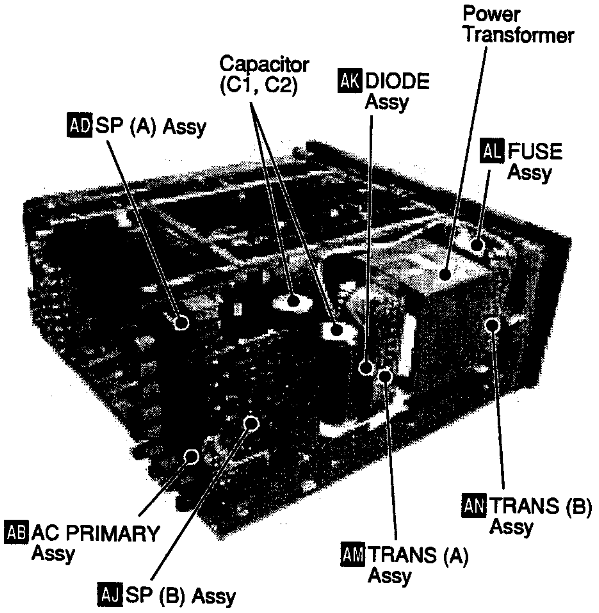
3 Rear Panel Block

① Remove screws (× 33)
② Remove the connector from SP (B) Assy
③ Remove screws (× 26)
④ Remove six connectors from MOTHER Assy
⑤ Remove the Rear Panel


Rear Panel
③ ×26
②
⑤
④
① ×22
① ×11


A FM/AM TUNER Module
G VIDEO CONNECT Assy
B A/V I/O Assy
E V-CONVERT Assy (VSX-49TX Only)
D S-VIDEO Assy
F COMPONENT Assy
C COMPOSITE Assy

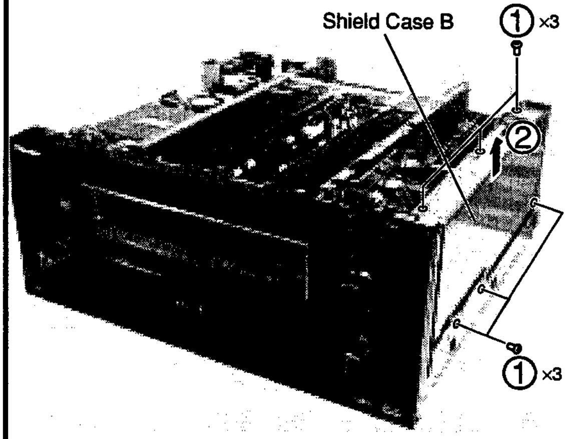
4 Power Supply Block


Power Transformer
Capacitor (C1, C2)
AK DIODE Assy
AD SP (A) Assy
AL FUSE Assy
AN TRANS (B) Assy
AB AC PRIMARY Assy
AM TRANS (A) Assy
AJ SP (B) Assy

5 DSP and DAC Block

① Remove 6 screws

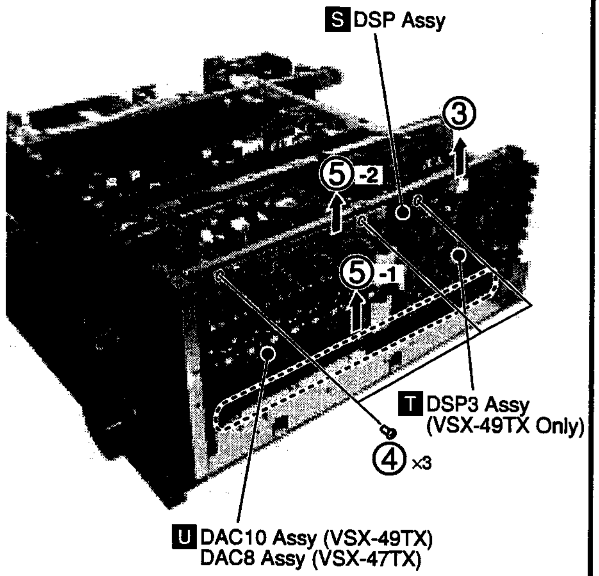
② Remove the Shield Case B


Shield Case B
①×3
②
①×3

③ Remove the connector

④ Remove 3 screw

⑤ Remove DAC10 Assy (VSX-49TX), DAC8 Assy (VSX-47TX) and DSP Assy (Connectors × 5)

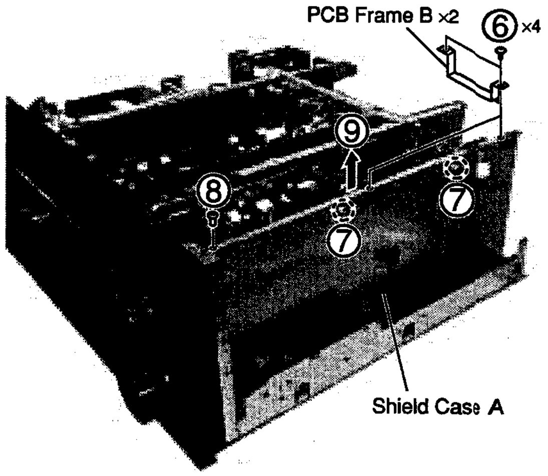

S DSP Assy
③
⑤-2
⑤-1
T DSP3 Assy
(VSX-49TX Only)
④×3
U DAC10 Assy (VSX-49TX)
DAC8 Assy (VSX-47TX)

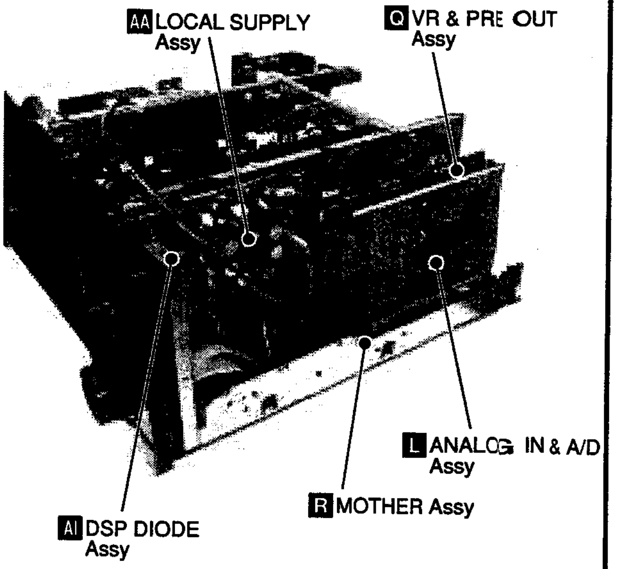
⑥ Remove two PCB Frame B (Screws × 4)

⑦ Remove two Wire Clip

⑧ Remove the screw

⑨ Remove the Shield Case A

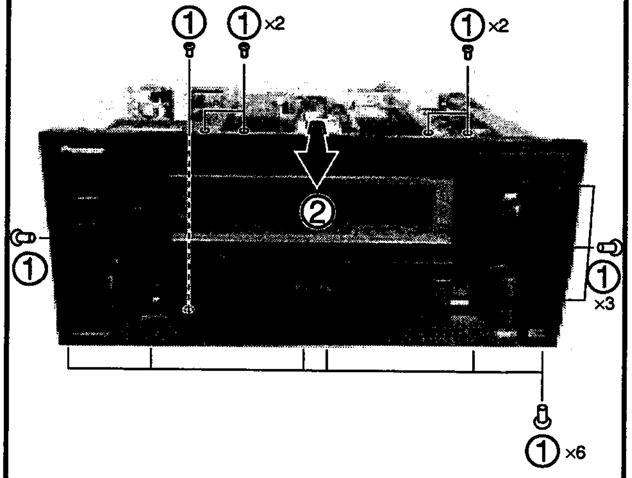

PCB Frame B ×2
⑥×4
⑨
⑧
⑦
⑦
Shield Case A

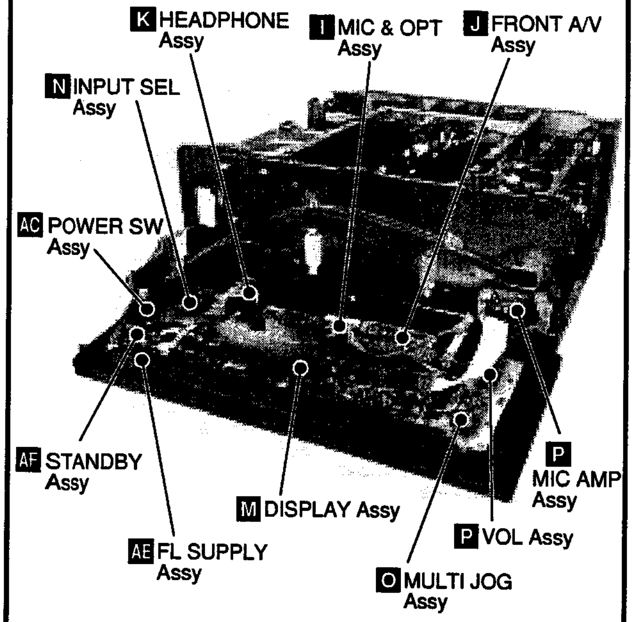

AA LOCAL SUPPLY
Assy
Q VR & PRE OUT
Assy
L ANALOG IN & A/D
Assy
R MOTHER Assy
AI DSP DIODE
Assy

6 Front Panel Block

① Remove screws (× 15)

② Remove the Front Panel Block


①
①×2
①×2
②
①
①
×3
①×6


K HEADPHONE Assy
I MIC & OPT Assy
J FRONT A/V Assy
N INPUT SEL Assy
AC POWER SW Assy
AF STANDBY Assy
M DISPLAY Assy
AE FL SUPPLY Assy
P MIC AMP Assy
P VOL Assy
O MULTI JOG Assy

7.2 PARTS

7.2.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

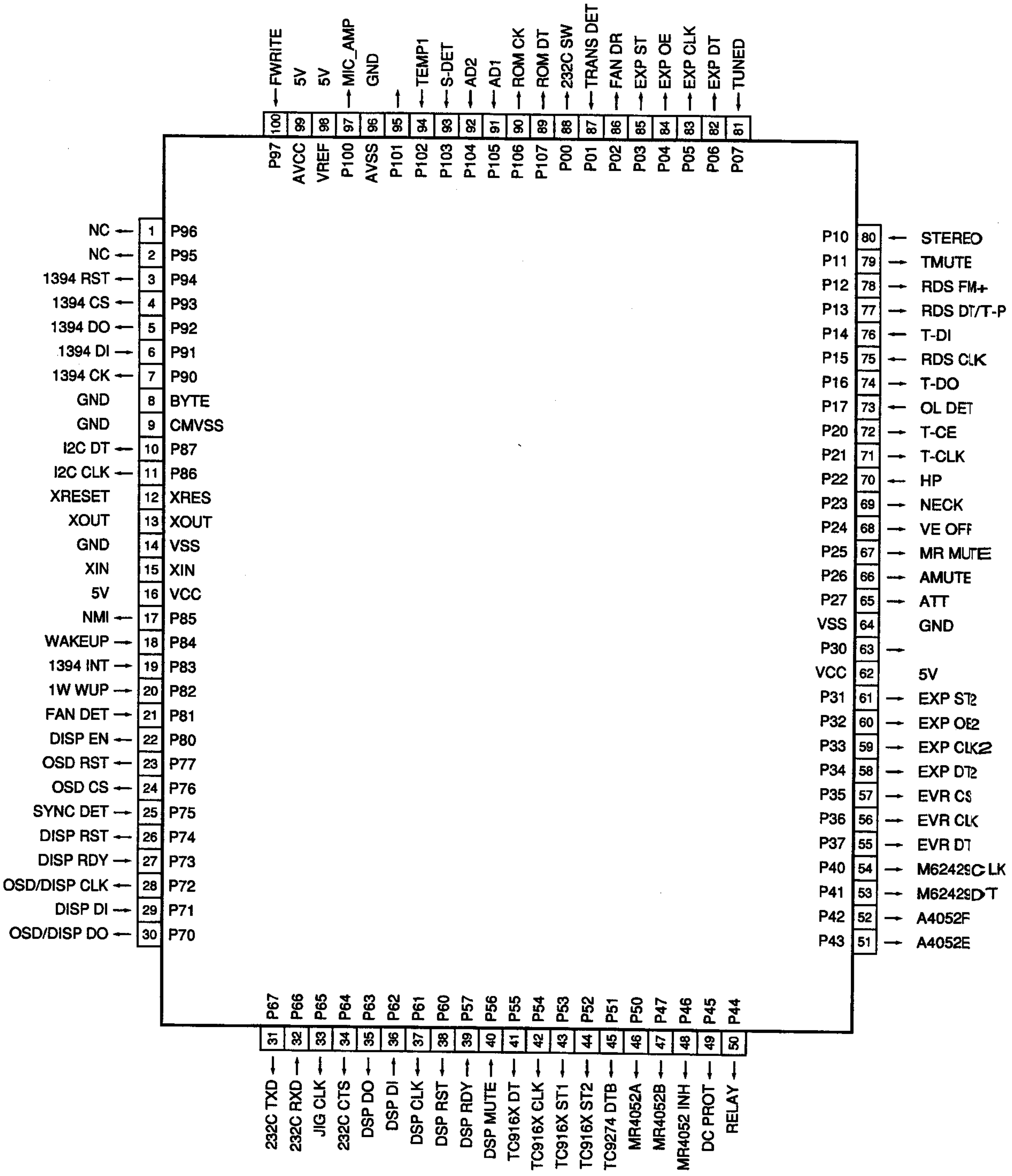
•List of IC

PDG5685A9, PD5686A, PD5687A, BU4094BCFV

■ PD5685A9 (MOTHER ASSY : IC5801)

- **Main Microcomputer**

- **Pin Assignment (Top view)**



100 P97 FWRITE
99 AVCC 5V
98 VREF 5V
97 P100 MIC_AMP
96 AVSS GND
95 P101
94 P102 TEMP1
93 P103 S-DET
92 P104 AD2
91 P105 AD1
90 P106 ROM CK
89 P107 ROM DT
88 P00 232C SW
87 P01 TRANS DET
86 P02 FAN DR
85 P03 EXP ST
84 P04 EXP OE
83 P05 EXP CLK
82 P06 EXP DT
81 P07 TUNED
NC ← 1 P96
NC ← 2 P95
1394 RST ← 3 P94
1394 CS ← 4 P93
1394 DO ← 5 P92
1394 DI → 6 P91
1394 CK ← 7 P90
GND 8 BYTE
GND 9 CMVSS
I2C DT ← 10 P87
I2C CLK ← 11 P86
XRESET 12 XRES
XOUT 13 XOUT
GND 14 VSS
XIN 15 XIN
5V 16 VCC
NMI ← 17 P85
WAKEUP → 18 P84
1394 INT → 19 P83
1W WUP → 20 P82
FAN DET → 21 P81
DISP EN ← 22 P80
OSD RST ← 23 P77
OSD CS ← 24 P76
SYNC DET → 25 P75
DISP RST ← 26 P74
DISP RDY → 27 P73
OSD/DISP CLK ← 28 P72
DISP DI → 29 P71
OSD/DISP DO ← 30 P70
P10 80 ← STEREO
P11 79 → TMUTE
P12 78 → RDS FM+
P13 77 → RDS DT/T-P
P14 76 ← T-DI
P15 75 ← RDS CLK
P16 74 → T-DO
P17 73 ← OL DET
P20 72 → T-CE
P21 71 → T-CLK
P22 70 ← HP
P23 69 → NECK
P24 68 → VE OFF
P25 67 → MR MUTE
P26 66 → AMUTE
P27 65 → ATT
VSS 64 GND
P30 63 →
VCC 62 5V
P31 61 → EXP ST2
P32 60 → EXP OE2
P33 59 → EXP CLK2
P34 58 → EXP DT2
P35 57 → EVR CS
P36 56 → EVR CLK
P37 55 → EVR DT
P40 54 → M62429CLK
P41 53 → M62429DT
P42 52 → A4052F
P43 51 → A4052E
31 P67 232C TXD
32 P66 232C RXD
33 P65 JIG CLK
34 P64 232C CTS
35 P63 DSP DO
36 P62 DSP DI
37 P61 DSP CLK
38 P60 DSP RST
39 P57 DSP RDY
40 P56 DSP MUTE
41 P55 TC916X DT
42 P54 TC916X CLK
43 P53 TC916X ST1
44 P52 TC916X ST2
45 P51 TC9274 DTB
46 P50 MR4052A
47 P47 MR4052B
48 P46 MR4052 INH
49 P45 DC PROT
50 P44 RELAY

- **Pin Function**

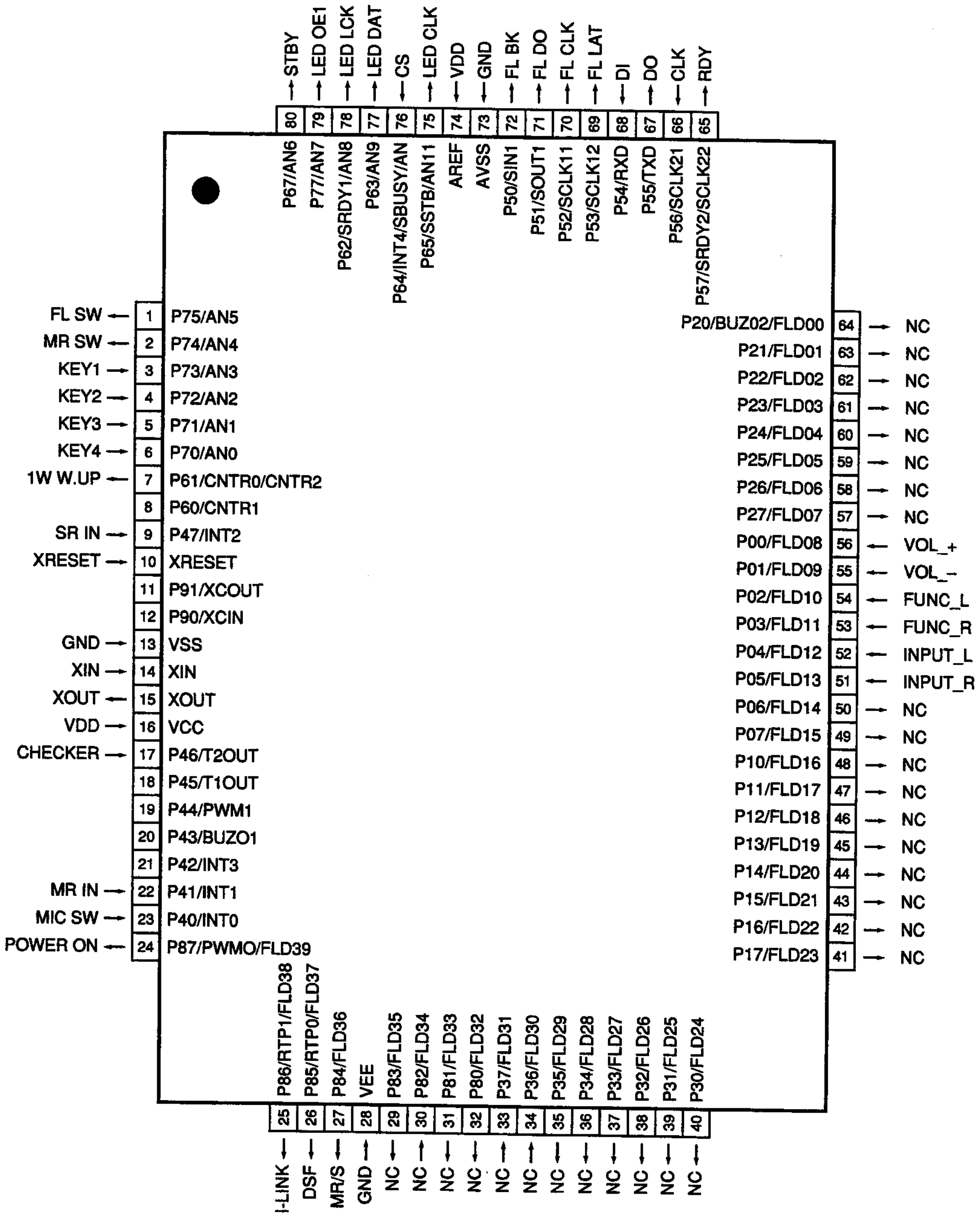
No.	Pin Name	I/O	Pin Function	Active
1	–	O	NC "L" fixed.	
2	–	O	NC "L" fixed.	
3	1394 RST	O	Standby for 1394 (Not used) "L" fixed.	
4	1394 CS	O	Standby for 1394 (Not used) "L" fixed.	
5	1394 DO	O	Standby for 1394 (Not used) "L" fixed.	
6	1394 DI	I	Standby for 1394 (Not used) Standby with the circuit.	
7	1394 CK	O	Standby for 1394 (Not used) "L" fixed.	
8	GND	–	Ground	
9	GND	–	Ground	
10	I2C DT	I/O	Data signal for video converter IC control I2C bus system	
11	I2C CLK	O	Clock signal for video converter IC control I2C bus system	
12	XRESET	–	Reset	
13	XOUT	–	Oscillator	
14	GND	–	Ground	
15	XIN	–	Oscillator	
16	5V	–	5V power supply	
17	NMI	I	Cannot use it as usual input port (100kΩ pullup)	
18	WAKEUP	I	Wakeup	H
19	1394 INT	I	Standby for 1394 (Not used) Standby with the circuit.	
20	1W WUP	I	Wakeup signal at standby (from the display microcomputer) (pulldown)	H
21	FAN DET	I	Fix to "L" with the hardware.	
22	DISP EN	O	Communication enabling signal to the display microcomputer	H
23	OSD RST	O	OSD-IC reset signal L: reset, H: release reset	
24	OSD CS	O	OSD-IC chip select signal	H
25	SYNC DET	I	Internal/external sync detection (Switch the internal/external sync of OSD-IC.)	L: EXT
26	DISP RST	O	Display microcomputer reset signal L: reset, H: release reset (pulldown)	
27	DISP RDY	I	Communication enabling signal from the display microcomputer	H
28	OSD/DISP CLK	O	Communication clock signal with the OSD-IC/display microcomputer	
29	DISP DI	I	Communication data in signal with the display microcomputer (N ch open drain: pullup)	
30	OSD/DISP DO	O	Communication data out signal with the OSD-IC/display microcomputer (N ch open drain: pullup)	
31	232C TXD	O	For 232C rewriting (data output)	
32	232C RXD	I	For 232C rewriting (data input)	
33	CLK	O	Not used	
34	232C CTS	O	For 232C rewriting (communication enabling)	
35	DSP DO	O	Communication data out signal with the DSP microcomputer	
36	DSP DI	I	Communication data in signal with the DSP microcomputer	
37	DSP CLK	O	Communication clock signal with the DSP microcomputer	
38	DSP RST	O	DSP microcomputer reset signal L: reset, H: release reset	
39	DSP RDY	I	Communication enabling signal from the DSP microcomputer	H
40	DSP MUTE	I	Mute request signal from the DSP microcomputer H: Mute request	H
41	TC916X DT	O	Function SW control data	
42	TC916X CLK	O	Function SW control clock	
43	TC916X ST1	O	Main audio switching control strobe of TC9162 and TC9163. Multi audio switching control strobe of TC9164	
44	TC9163 STX	O	Multi/2ch signal switch	
45	TC9274 STB	O	DIRECT/DSP switching control strobe	
46	MR4052A	O	Switching control signal 1 of multi room audio system	
47	MR4052B	O	Switching control signal 2 of multi room audio system	
48	MR4052INH	O	Switching control signal 3 of multi room audio system H: output OFF	
49	DC PROT	I	DC detection H: detection	H
50	RELAY	O	SP relay ON/OFF	H

No.	Pin Name	I/O	Pin Function	Active
51	A4052E	O	Output switching control signal 1 of surround back ch	
52	A4052F	O	Output switching control signal 2 of surround back ch	
53	M62429 DT	O	Data signal for multi room volume IC control	
54	M62429 CLK	O	Clock signal for multi room volume IC control	
55	EVR DT	O	Data signal for erectronic volume	
56	EVR CLK	O	Clock signal for erectronic volume	
57	EVR CS	O	Chip select signal for erectronic volume	
58	EXP DT2	O	Data signal for expansion IC control	
59	EXP CLK2	O	Clock signal for expansion IC control	
60	EXP OE2	O	Output enable signal for expansion IC control	
61	EXP ST2	O	Chip clock signal for expansion IC control	
62	5V	–	5V power supply	
63	NC	O	NC "L" fixed.	
64	GND	–	Ground	
65	ATT	O	Atteneuator	H
66	AMUTE	O	System mute L: Mute ON	L
67	MRMUTE	O	Multi room mute L: Mute ON	L
68	VE OFF	O	Video system power supply switch At Power OFF of video system: L	L
69	NECK	O	4/6Ω switch 4Ω: H , 6Ω: L , Initial value: 6Ω	
70	HP	I	Headphone detection H: Detection	H
71	TUNER CLK	O	Clock signal of tuner control	
72	TUNER CE	O	Chip select signal of tuner control	
73	OL DET	I	Amp. overload detection H: Detection	H
74	TUNER DO	O	Data output signal of tuner control	
75	RDS CLK	O	"L" fixed	
76	TUNER DI	I	Data input signal of tuner control (pullup)	
77	T-POWER	O	Power ON/OFF of tuner module	H
78	NC	O	NC	
79	TMUTE	O	Tuner mute	H
80	STEREO	I	L: STEREO (pullup)	L
81	TUNED	I	L: TUNED (pullup)	L
82	EXP DT	O	Data signal of expansion IC control	
83	EXP CLK	O	Clock signal of expansion IC control	
84	EXP OE	O	Output enable signal of expansion IC control	
85	EXP ST	O	Chip clock signal of expansion IC control	
86	FAN DR	O	"L" fixed	
87	TRANS DET	I	"H" fixed by hardware	
88	232CSW	I/O	232C switch L: Main unit, H: DSP microcomputer	
89	ROM DT	I/O	EEPROM control data signal	
90	ROM CK	O	EEPROM control clock signal	
91	SIMUKE1	I	Destination read 1	
92	SIMUKE2	I	Destination read 2	
93	S-DET	I	Sync detection H: S signal present "H" for sync detection	H
94	TEMP1	I	Temperature detection H: Protection function ON	H
95	NC	O	"L" fixed	
96	AVSS	–	Connect to VSS	
97	MIC AMP	O	5-3V conversion IC control H: MIC AMP ON	H
98	VREF	–	Connect to VCC	
99	AVCC	–	Connect to VCC	
100	FWRITE	I	Forced rewriting mode detection (H: Rewriting mode)	H

■ PD5686A (DISPLAY ASSY : IC3001)

- **Display Microcomputer**

- **Pin Assignment (Top view)**


STBY
80
P67/AN6
LED OE1
79
P77/AN7
LED LCK
78
P62/SRDY1/AN8
LED DAT
77
P63/AN9
CS
76
P64/INT4/SBUSY/AN
LED CLK
75
P65/SSTB/AN11
VDD
74
AREF
GND
73
AVSS
FL BK
72
P50/SIN1
FL DO
71
P51/SOUT1
FL CLK
70
P52/SCLK11
FL LAT
69
P53/SCLK12
DI
68
P54/RXD
DO
67
P55/TXD
CLK
66
P56/SCLK21
RDY
65
P57/SRDY2/SCLK22
FL SW
1
P75/AN5
MR SW
2
P74/AN4
KEY1
3
P73/AN3
KEY2
4
P72/AN2
KEY3
5
P71/AN1
KEY4
6
P70/AN0
1W W.UP
7
P61/CNTR0/CNTR2
8
P60/CNTR1
SR IN
9
P47/INT2
XRESET
10
XRESET
11
P91/XCOUT
12
P90/XCIN
GND
13
VSS
XIN
14
XIN
XOUT
15
XOUT
VDD
16
VCC
CHECKER
17
P46/T2OUT
18
P45/T1OUT
19
P44/PWM1
20
P43/BUZO1
21
P42/INT3
MR IN
22
P41/INT1
MIC SW
23
P40/INT0
POWER ON
24
P87/PWMO/FLD39
P86/RTP1/FLD38
25
I-LINK
P85/RTP0/FLD37
26
DSF
P84/FLD36
27
MR/S
VEE
28
GND
P83/FLD35
29
NC
P82/FLD34
30
NC
P81/FLD33
31
NC
P80/FLD32
32
NC
P37/FLD31
33
NC
P36/FLD30
34
NC
P35/FLD29
35
NC
P34/FLD28
36
NC
P33/FLD27
37
NC
P32/FLD26
38
NC
P31/FLD25
39
NC
P30/FLD24
40
NC
P20/BUZ02/FLD00
64
NC
P21/FLD01
63
NC
P22/FLD02
62
NC
P23/FLD03
61
NC
P24/FLD04
60
NC
P25/FLD05
59
NC
P26/FLD06
58
NC
P27/FLD07
57
NC
P00/FLD08
56
VOL_+
P01/FLD09
55
VOL_-
P02/FLD10
54
FUNC_L
P03/FLD11
53
FUNC_R
P04/FLD12
52
INPUT_L
P05/FLD13
51
INPUT_R
P06/FLD14
50
NC
P07/FLD15
49
NC
P10/FLD16
48
NC
P11/FLD17
47
NC
P12/FLD18
46
NC
P13/FLD19
45
NC
P14/FLD20
44
NC
P15/FLD21
43
NC
P16/FLD22
42
NC
P17/FLD23
41
NC

- **Pin Function**

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	FL SW	O	FL power supply ON/OFF	41	NC	O/L	Non connection
2	MR SW	O	MR PIONEER / OTHER	42	NC		
3	KEY1	I	KEY AD input	43	NC		
4	KEY2			44	NC		
5	KEY3			45	NC		
6	KEY4			46	NC		
7	1W W.UP	O	1W correspondence main wakeup	47	NC		
8	NC	O/L		48	NC		
9	SR IN	I	Remote control input of main room	49	NC		
10	RESET	–	Reset	50	NC		
11	NC	O/L	Non connection	51	NC		
12	NC			52	INPUT_R	I	Input SEL L
13	GND	–	Ground	53	INPUT_L	I	Input SEL R
14	XIN	–	Oscillator	54	FUNC_R	I	Multi JOG R
15	XOUT	–	Oscillator	55	FUNC_L	I	Multi JOG L
16	VDD	–	Power supply	56	VOL_–	I	VOL_–
17	CHECKER	I	Checker mode detection	57	VOL_+	I	VOL_+
18	NC	O/L	Non connection	58	NC	O/L	Non connection
19	NC			59	NC		
20	NC			60	NC		
21	NC			61	NC		
22	MR IN	I	Remote control input of sub room	62	NC		
23	MIC SW	I	MIC detection	63	NC		
24	POWER ON	O	Power ON LED	64	NC		
25	I-LINK	O	I-LINK LED	65	RDY	O	Main communication RDY
26	DSF	O	Sound field LED	66	CLK	I	Main communication CLK
27	MR/S	O	MR/S LED	67	DO	O	Main communication data out
28	GND	–	Ground	68	DI	I	Main communication data in
29	NC	O/L	Non connection	69	FL_LAT	O	FL DRV LAT
30	NC			70	FL_CLK	O	FL DRV CLK
31	NC			71	FL_DO	O	FL DRV DATA
32	NC			72	FL_BK	O	FL DRV BK
33	NC			73	GND	–	Ground
34	NC			74	VDD	–	Power supply
35	NC			75	LED_CLK	O	LED DRV CLK
36	NC			76	CS	O	Main communication CS
37	NC			77	LED_DAT	O	LED DRV DATA
38	NC			78	LED_LCK	O	LED DRV LCK
39	NC			79	LED_OE1	O	LED DRV OE
40	NC			80	STBY	O	STBY LED

■ PD5687A (DSP ASSY : IC701)

• DSP Microcomputer

• Pin Function

No.	Pin Name	I/O	Pin Function
1	DSP2MOSI	O	2nd DSP communication data output
2	DSP2SCK	O	2nd DSP communication clock output
3	DSP2SSI	O	2nd DSP communication strobe
4	DSP2RST	O	2nd DSP reset
5	HDO	O	Data output of microcomputer communication to main microcomputer
6	HDI	I	Data input of microcomputer communication from main microcomputer
7	HCLK	I	Clock input of microcomputer communication from main microcomputer
8	BYTE	I	Vcc (bus width 8 bit)
9	CNVSS	I	Vss (Use with memory expansion mode)
10	MODEL	I	Upper/lower model distinction input
11	FWRITE	I	FLASH rewrite control input
12	RESET	I	Reset input from main microcomputer
13	XOUT	O	Connect a ceramic resonator (7.7MHz)
14	VSS	–	Vss
15	XIN	I	Connect a ceramic resonator (7.7MHz)
16	VCC	–	Vcc
17	NMI	I	Vcc
18	96DTS	I	DTS 96kHz detection input
19	UNLK	I	UNLOCK signal input
20	DATA	I	DIR various factor data
21	DLCK	I	Demodulator UNLOCK
22	EXOE	O	OE output of expansion IC
23	S DATA	O	Data output of expansion IC
24	S CLOCK	O	Clock output of expansion IC
25	STB	O	Strobe output of expansion IC
26	DSP1RST	O	1st DSP reset
27	9624	O	DSP IC mute output (at DTS 96kHz)
28	DACMCLK	O	DAC/D.F. clock output
29	DSCMDI	I	DAC data input
30	DACMDO	O	DAC/D.F. data output
31	DSP1REQ	O	1st DSP communication request
32	DSP1RDWR	O	1st DSP READ/WRITE switch
33	DSP1BUSY	I	1st DSP BUSY communication wait
34	DSP1ACK	I	1st DSP communication completion check
35	CDTO	O	DIR serial communication data output / TxD (rewrite)
36	CDTI	I	DIR serial communication data input / RxD (rewrite)
37	CCLK	O	DIR serial communication output
38	CSN	O	DIR serial communication chip select / RTS (rewrite)
39	XRDY	I	Vcc
40	ALE	O	NC
41	XHOLD	I	Vcc
42	XHLDA	O	NC
43	BCLK	O	NC
44	XOE	O	Flash memory I/F read enable
45	XBHE	O	NC
46	XWE	O	Flash memory I/F write enable
47	MD	O	Gain amp data output
48	MC	O	Gain amp clock output
49	STB	O	Gain amp strobe output
50	XCE	O	Flash ROM CE control

No.	Pin Name	I/O	Pin Function
51	A19	O	NC
52	A18	O	Address output of flash memory communication
53	A17		
54	A16		
55	A15		
56	A14		
57	A13		
58	A12		
59	A11		
60	A10		
61	A9		
62	Vcc	–	Vcc
63	A8	O	Address output of flash memory communication
64	Vss	–	Vss
65	A7	O	Address output of flash memory communication
66	A6		
67	A5		
68	A4		
69	A3		
70	A2		
71	A1		
72	A0		
73	XRST2	O	ADC reset output
74	DSPMUTE	O	Mute (Notify to the main microcomputer)
75	HRDY	O	Communication permission to the main microcomputer
76	DSP3REQ	O	3rd DSP communication request
77	DSP3RDWR	O	3rd DSP READ / WRITE switch
78	DSP3BUSY	I	3rd DSP BUSY communication wait
79	DSP3ACK	I	3rd DSP communication complete check
80	DSP3RST	O	3rd DSP reset
81	DQ7	I/O	Data input/output of flash memory communication
82	DQ6		
83	DQ5		
84	DQ4		
85	DQ3		
86	DQ2		
87	DQ1		
88	DQ0		
89	DSPDATA7	I/O	1st/3rd DSP data bit 7 (sharing port)
90	DSPDATA6		1st/3rd DSP data bit 6 (sharing port)
91	DSPDATA5		1st/3rd DSP data bit 5 (sharing port)
92	DSPDATA4		1st/3rd DSP data bit 4 (sharing port)
93	DSPDATA3		1st/3rd DSP data bit 3 (sharing port)
94	DSPDATA2		1st/3rd DSP data bit 2 (sharing port)
95	DSPDATA1		1st/3rd DSP data bit 1 (sharing port)
96	AVss	–	Vss
97	DSPDATA0	I/O	1st/3rd DSP data bit 0 (sharing port)
98	Vref	–	Vcc
99	AVcc	–	Vcc
100	DSP2MISO	I	2nd DSP communication data input

■ BU4094BCFV (DSP ASSY : IC703)

- Expansion IC

- **Pin Function**

No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Serial data input
3	CLOCK	I	Serial clock input
4	DART	O	DAC/D.F. reset
5	DION	O	Digital input power ON/OFF switch
6	HIFS	O	Clock switching output
7	FSDN	O	Fs sampling frequency down output
8	Vss	–	Vss
9	Qs	O	Connect to DATA of expansion IC
10	Qs'	–	Not used
11	DACS4	O	DAC/D.F. latch output 4
12	DACS3	O	DAC/D.F. latch output 3
13	DACS2	O	DAC/D.F. latch output 2
14	DACS1	O	DAC/D.F. latch output 1
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

■ BU4094BCFV (DSP ASSY : IC704)

- Expansion IC

- **Pin Function**

No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Connect to pin 9 of expansion IC1
3	CLOCK	I	Serial clock input
4	XTLO	O	DIR XTLO control
5	NORM	O	Control output for DTS96
6	XADC	O	Analog/Digital switching output
7	STOP	O	Control output for DTS96
8	Vss	–	Vss
9	Qs	–	Connect to DATA of expansion IC3
10	Qs'	–	Not used
11	RFON	O	RF demodulation power ON/OFF switch
12	DSTP	O	Demodulator stop output
13	DRST	O	Demodulator reset output
14	XPDN	O	DIR power down
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

■ BU4094BCFV (DSP ASSY : IC705) (VSX-49TX only)

- **Expansion IC**

● Pin Function

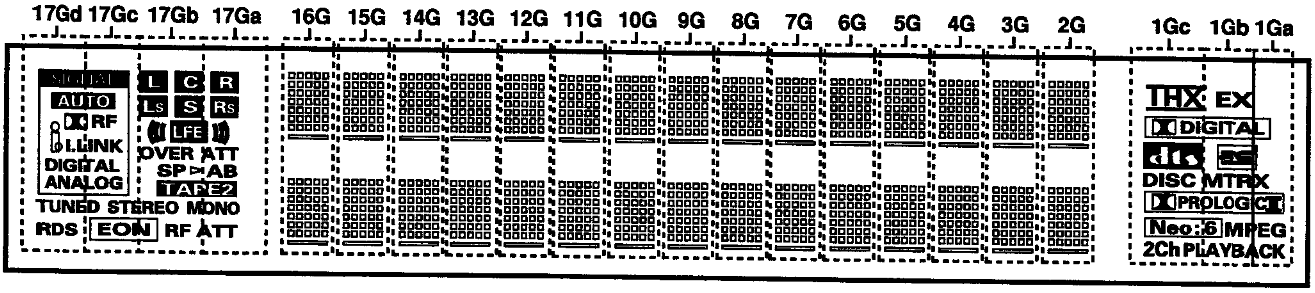
No.	Pin Name	I/O	Pin Function
1	STB	I	Strobe input
2	DATA	I	Connect to pin 9 of expansion IC2
3	CLOCK	I	Serial clock input
4	IEEE	O	Input switching output 1
5	OPT4	O	2nd PLL 256/384 switch
6	DVDA	O	2nd PLL clock switch
7	NC	O	Non connection
8	Vss	–	Vss
9	Qs	–	Connect to DATA of expansion IC4
10	Qs'	–	Not used
11	NC	O	Non connection
12	192K	O	D.F. x4 sampling output
13	NC	O	Non connection
14	NC	O	Non connection
15	OE	I	Microcomputer EXOE
16	Vdd	–	Vdd

7.2.2 DISPLAY

■ AAV7081 (DISPLAY ASSY : V3001)

- FL Indicator Tube

● Grid Assignment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4G
3G
2G
1Gc
1Gb
1Ga
AUTO
RF
i.LINK
DIGITAL
ANALOG
TUNED
STEREO
MONO
RDS
EON
RF ATT
L
C
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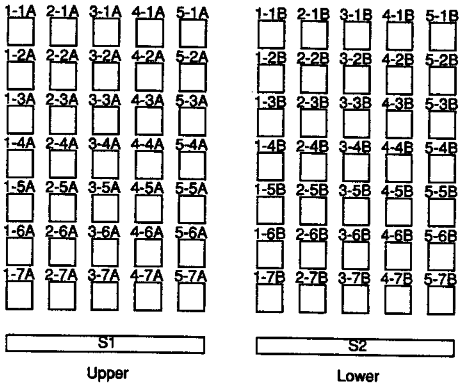
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Upper
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2-6B
3-6B
4-6B
5-6B
1-7B
2-7B
3-7B
4-7B
5-7B
S2
Lower

• Anode Connection

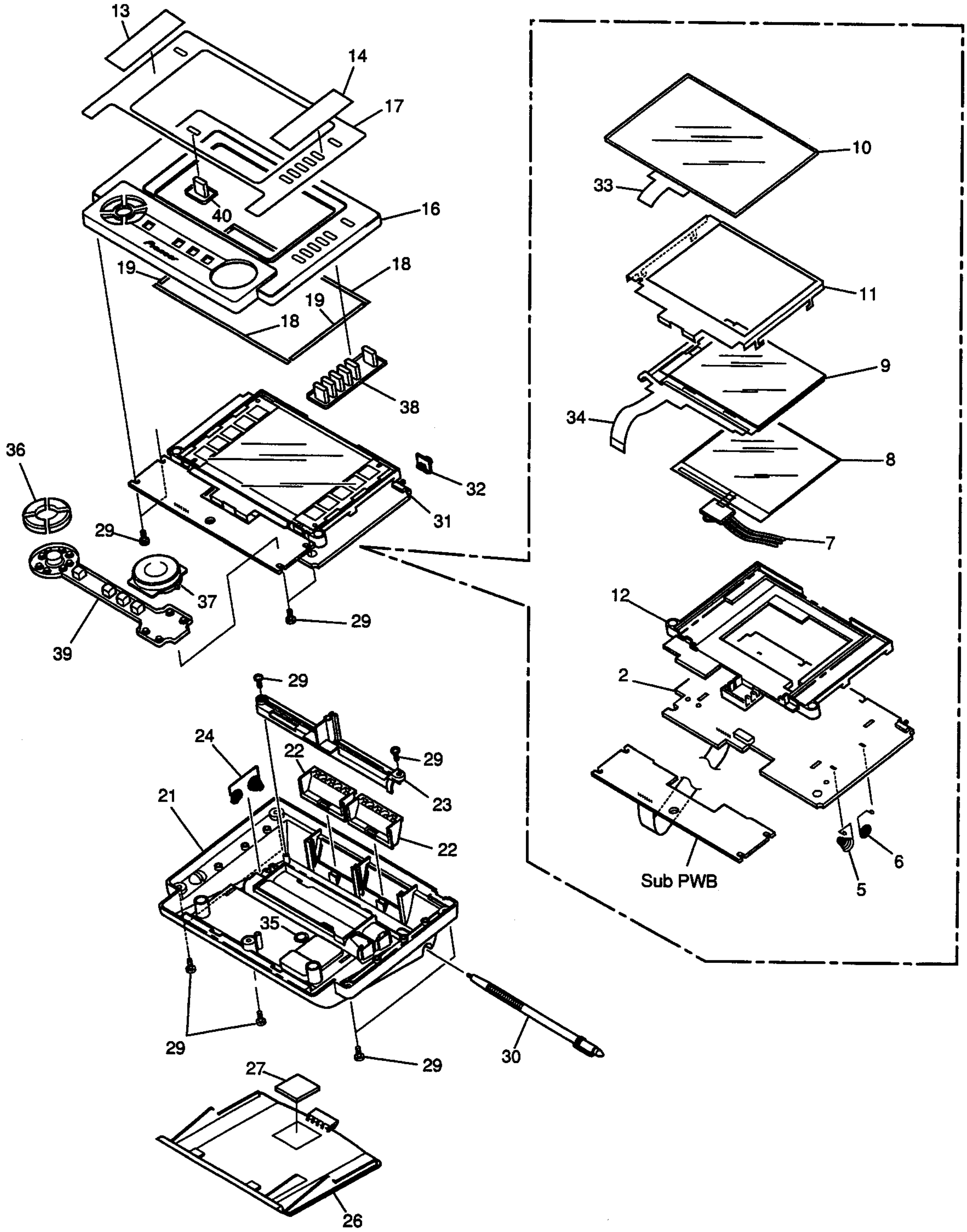
	17Gd to 17Ga	16G to 2G	1Gc to 1Ga		17Gd to 17Ga	16G to 2G	1Gc to 1Ga
P1	L	1-1A	–	P37	–	1-1B	THX
P2	C	2-1A	–	P38	–	2-1B	EX
P3	R	3-1A	–	P39	–	3-1B	DD DIGITAL
P4	Ls	4-1A	–	P40	–	4-1B	dts
P5	S	5-1A	–	P41	–	5-1B	ES
P6	Rs	1-2A	–	P42	–	1-2B	DISC
P7	LFE	2-2A	–	P43	–	2-2B	MTRX
P8	(( ))	3-2A	–	P44	–	3-2B	DD PROLOGIC II
P9	SIGNAL ☐	4-2A	–	P45	–	4-2B	Neo:6
P10	AUTO	5-2A	–	P46	–	5-2B	MPEG
P11	DD RF	1-3A	–	P47	–	1-3B	2Ch PLAYBACK
P12	I.LINK	2-3A	–	P48	–	2-3B	–
P13	DIGITAL	3-3A	–	P49	–	3-3B	–
P14	ANALOG	4-3A	–	P50	–	4-3B	–
P15	OVER	5-3A	–	P51	–	5-3B	–
P16	ATT	1-4A	–	P52	–	1-4B	–
P17	SP	2-4A	–	P53	–	2-4B	–
P18	▷	3-4A	–	P54	–	3-4B	–
P19	A	4-4A	–	P55	–	4-4B	–
P20	B	5-4A	–	P56	–	5-4B	–
P21	TAPE2	1-5A	–	P57	–	1-5B	–
P22	TUNED	2-5A	–	P58	–	2-5B	–
P23	STEREO	3-5A	–	P59	–	3-5B	–
P24	MONO	4-5A	–	P60	–	4-5B	–
P25	RDS	5-5A	–	P61	–	5-5B	–
P26	EON	1-6A	–	P62	–	1-6B	–
P27	☐(EON)	2-6A	–	P63	–	2-6B	–
P28	RF ATT	3-6A	–	P64	–	3-6B	–
P29	–	4-6A	–	P65	–	4-6B	–
P30	–	5-6A	–	P66	–	5-6B	–
P31	–	1-7A	–	P67	–	1-7B	–
P32	–	2-7A	–	P68	–	2-7B	–
P33	–	3-7A	–	P69	–	3-7B	–
P34	–	4-7A	–	P70	–	4-7B	–
P35	–	5-7A	–	P71	–	5-7B	–
P36	–	S1	–	P72	–	S2	–

7.3 REMOTE CONTROL UNIT

7.3.1 AXD7295 (for VSX-49TX)

7.3.1.1 EXPLODED VIEWS AND PARTS LIST

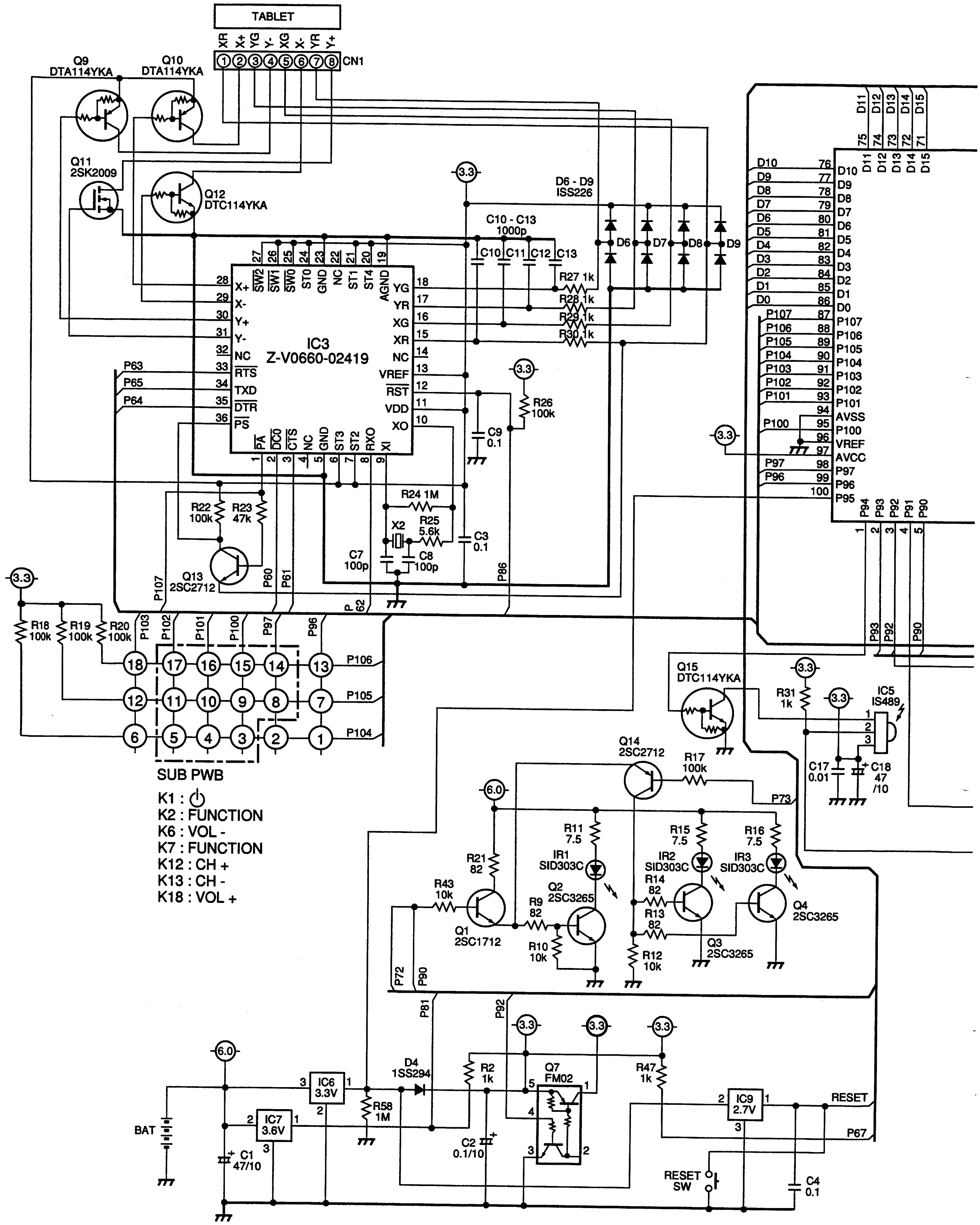
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

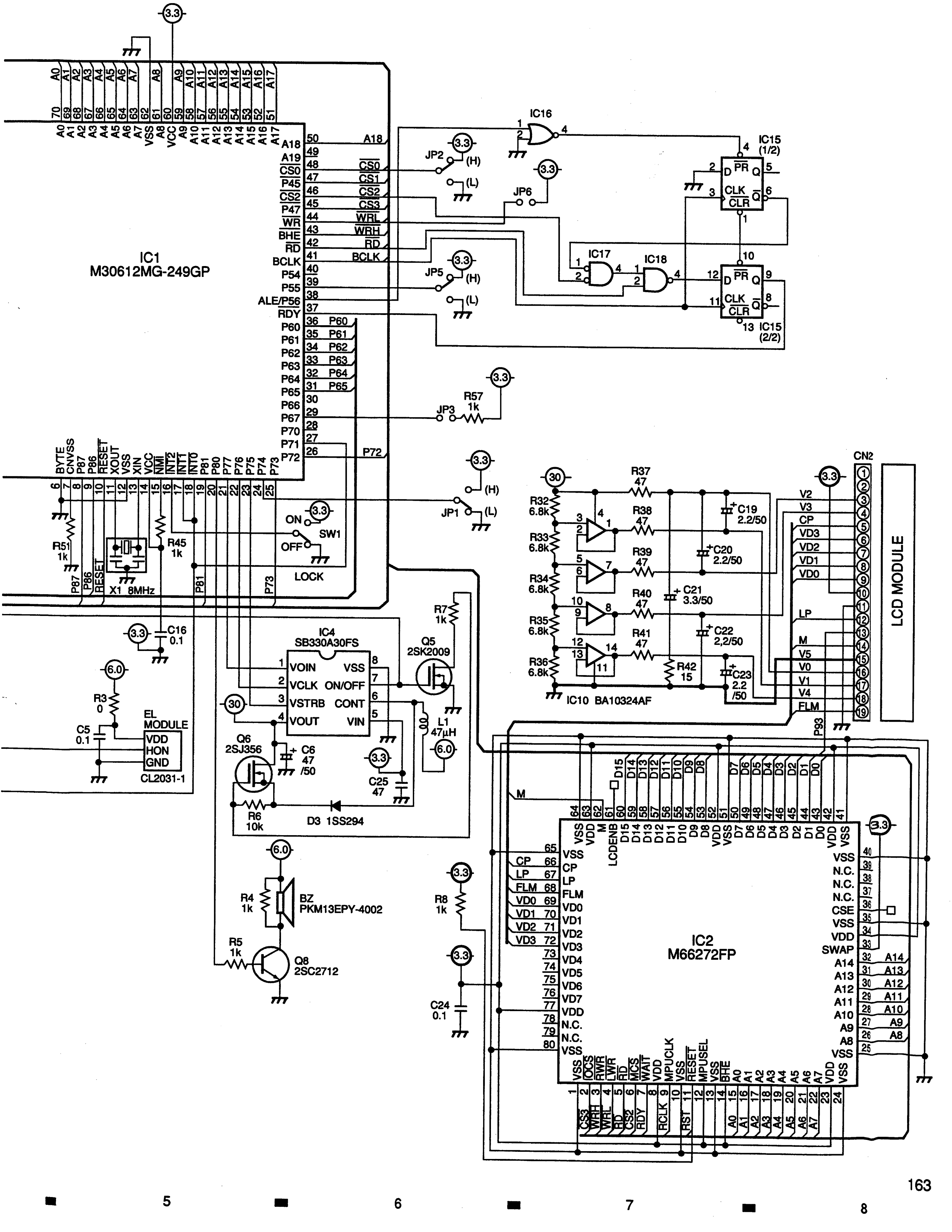

13
14
17
10
33
16
40
11
19
18
19
18
9
38
34
36
32
8
31
29
7
37
29
12
39
2
29
24
22
29
21
23
22
6
Sub PWB
5
35
29
29
30
29
27
26

• PARTS LIST

Mark	No.	Description	Part No.
	1	•••••	
	2	PCB Assy	AZC7299
	3	•••••	
	4	•••••	
	5	Terminal A	411RRC15801R
	6	Terminal B	411RRC15901R
	7	Jumper Cable	E-AA1446-001
	8	EL Module	AZC7294
	9	LCD Module	AZC7295
	10	Touch Panel	NTX01005701R
	11	Frame	501RRC01901R
	12	LCD Holder	AZN7787
	13	Seal A	AZA7415
	14	Seal B	AZA7416
	15	•••••	
	16	Case A	AZN7783
	17	Name Plate	AZA7406
	18	Cushion A	701RRC04801R
	19	Cushion B	701RRC04901R
	20	•••••	
	21	Case B	AZN7784
	22	Filter	AZA7343
	23	Pen Holder	AZN7786
	24	Terminal	413RRC11201R
	25	•••••	
	26	Battery Cover	AZN7785
	27	Cushion C	701RRC03501R
	28	•••••	
	29	Screw	AZB7144
	30	Touch Pen	AZA7350
	31	Slide Switch	JSB1220-0111
	32	Slide Knob	AZA7347
	33	FPC Connector	CFP5519-0101
	34	FPC Connector	E-CP0535-008
	35	MT Switch	JPM1030-0801
	36	Key Top A	AZA7345
	37	Key Top B	AZA7346
	38	Rubber Sheet A	AZA7410
	39	Rubber Sheet B	AZA7349
	40	Rubber Sheet C	AZA7411

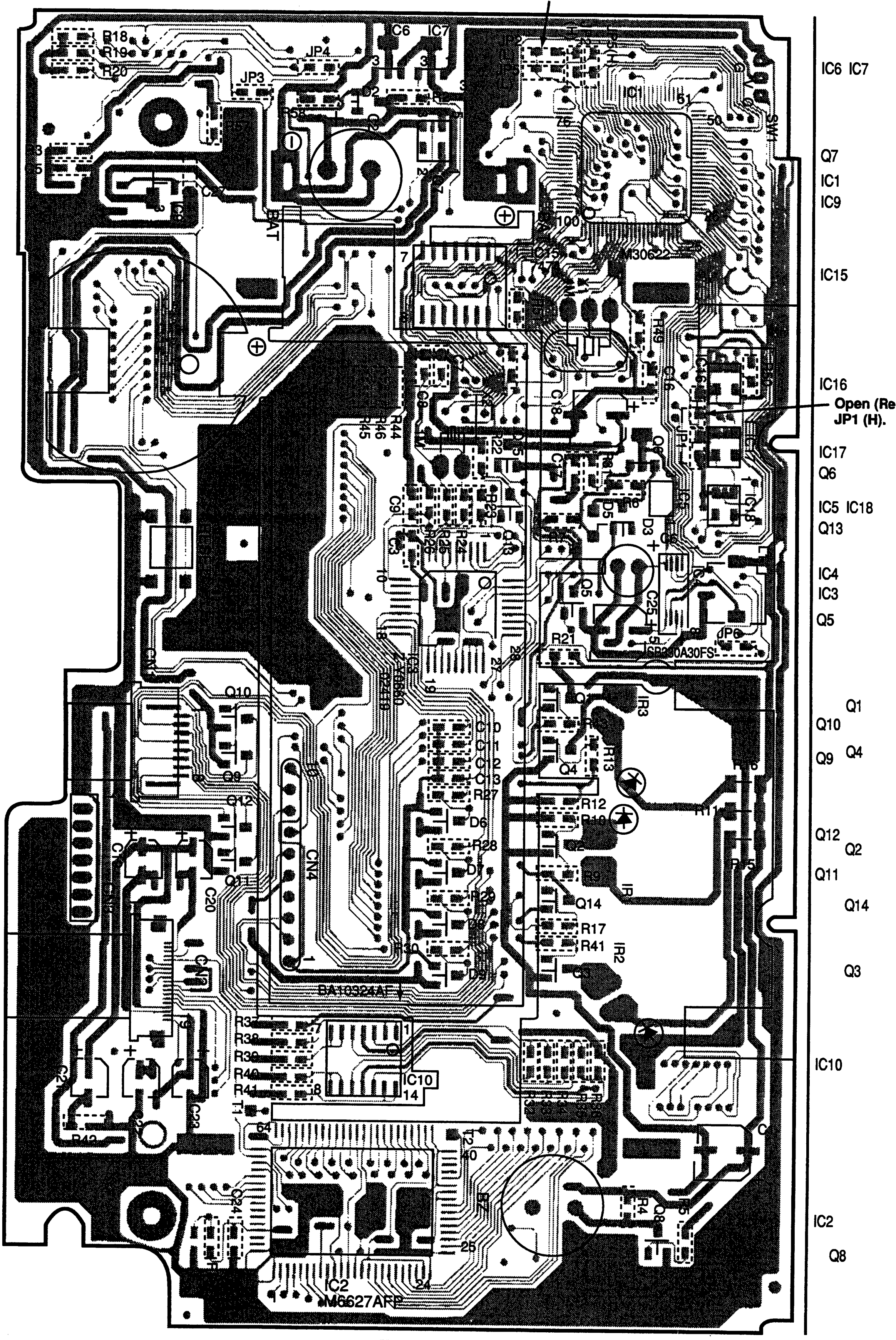
7.3.1.2 SCHEMATIC DIAGRAM


A
B
C
D
TABLET
XR X+ YG Y- XG X- YR Y+
CN1
Q9 DTA114YKA
Q10 DTA114YKA
Q11 2SK2009
Q12 DTC114YKA
D6 - D9 ISS226
C10 - C13 1000p
C10 C11 C12 C13
R27 1k
R28 1k
R29 1k
R30 1k
D6 D7 D8 D9
IC3 Z-V0660-02419
X+ X- Y+ Y- NC RTS TXD DTR PS
SW2 SW1 SW0 ST0 GND NC ST1 ST4 AGND
YG YR XG XR NC VREF RST VDD XO
PA DC0 CTS NC GND ST3 ST2 RXO XI
P63 P65 P64
R26 100k
C9 0.1
R24 1M
R25 5.6k
X2
C7 100p
C8 100p
C3 0.1
R22 100k
R23 47k
Q13 2SC2712
P107 P60 P61 P62 P86
R18 100k
R19 100k
R20 100k
P103 P102 P101 P100 P97 P96
P106 P105 P104
SUB PWB
K1 : ⏻
K2 : FUNCTION
K6 : VOL -
K7 : FUNCTION
K12 : CH +
K13 : CH -
K18 : VOL +
D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
P107 P106 P105 P104 P103 P102 P101 AVSS P100 VREF AVCC P97 P96 P95
P94 P93 P92 P91 P90
D11 D12 D13 D14 D15
Q15 DTC114YKA
R31 1k
IC5 IS489
C17 0.01
C18 47 /10
Q14 2SC2712
R17 100k
P73
R11 7.5
R15 7.5
R16 7.5
IR1 SID303C
IR2 SID303C
IR3 SID303C
R21 82
R43 10k
Q1 2SC1712
Q2 2SC3265
R9 82
R10 10k
R14 82
R13 82
R12 10k
Q3 2SC3265
Q4 2SC3265
P72 P90 P81 P92
6.0
3.3
BAT
IC6 3.3V
IC7 3.6V
C1 47/10
R58 1M
D4 1SS294
R2 1k
C2 0.1/10
Q7 FM02
R47 1k
IC9 2.7V
RESET
P67
RESET SW
C4 0.1


A
B
C
D
IC1
M30612MG-249GP
A0 A1 A2 A3 A4 A5 A6 A7 VSS A8 VCC A9 A10 A11 A12 A13 A14 A15 A16 A17
A18 A19 CS0 P45 CS2 P47 WR BHE RD BCLK P54 P55 ALE/P56 RDY
P60 P61 P62 P63 P64 P65 P66 P67 P70 P71 P72
BYTE CNVSS P87 P86 RESET XOUT VSS XIN VCC NMI INT2 INT1 INT0 P81 P80 P77 P76 P75 P74 P73
A18 CS0 CS1 CS2 CS3 WRL WRH RD BCLK
IC16
IC15 (1/2)
IC15 (2/2)
IC17
IC18
D PR Q CLK CLR Q
JP1 JP2 JP3 JP5 JP6
(H) (L)
R57 1k
3.3
SW1 ON OFF LOCK
R51 1k
R45 1k
X1 8MHz
C16 0.1
6.0
R3 0
C5 0.1
EL MODULE
VDD HON GND
CL2031-1
IC4
SB330A30FS
VOIN VSS VCLK ON/OFF VSTRB CONT VOUT VIN
R7 1k
Q5 2SK2009
L1 47µH
30
Q6 2SJ356
C6 47 /50
C25 47
R6 10k
D3 1SS294
R4 1k
BZ PKM13EPY-4002
R5 1k
Q8 2SC2712
R8 1k
C24 0.1
R37 47
R38 47
R39 47
R40 47
R41 47
R32 6.8k
R33 6.8k
R34 6.8k
R35 6.8k
R36 6.8k
C19 2.2/50
C20 2.2/50
C21 3.3/50
C22 2,2/50
C23 2.2 /50
R42 15
IC10 BA10324AF
CN2
V2 V3 CP VD3 VD2 VD1 VD0 LP M V5 V0 V1 V4 FLM
LCD MODULE
P93
IC2
M66272FP
VSS VDD M LCDENB D15 D14 D13 D12 D11 D10 D9 D8 VDD VSS D7 D6 D5 D4 D3 D2 D1 D0 VDD VSS
VSS CP LP FLM VD0 VD1 VD2 VD3 VD4 VD5 VD6 VD7 VDD N.C. N.C. VSS
VSS N.C. N.C. N.C. CSE VSS VDD SWAP A14 A13 A12 A11 A10 A9 A8 VSS
VSS IOCS RWR LWR RD MCS WAIT VDD MPUCLK VSS RESET MPUSEL VSS BHE A0 A1 A2 A3 A4 A5 A6 A7 VDD VSS
CS3 WRH WRL RD CS2 RDY RCLK RST A0 A1 A2 A3 A4 A5 A6 A7
A14 A13 A12 A11 A10 A9 A8

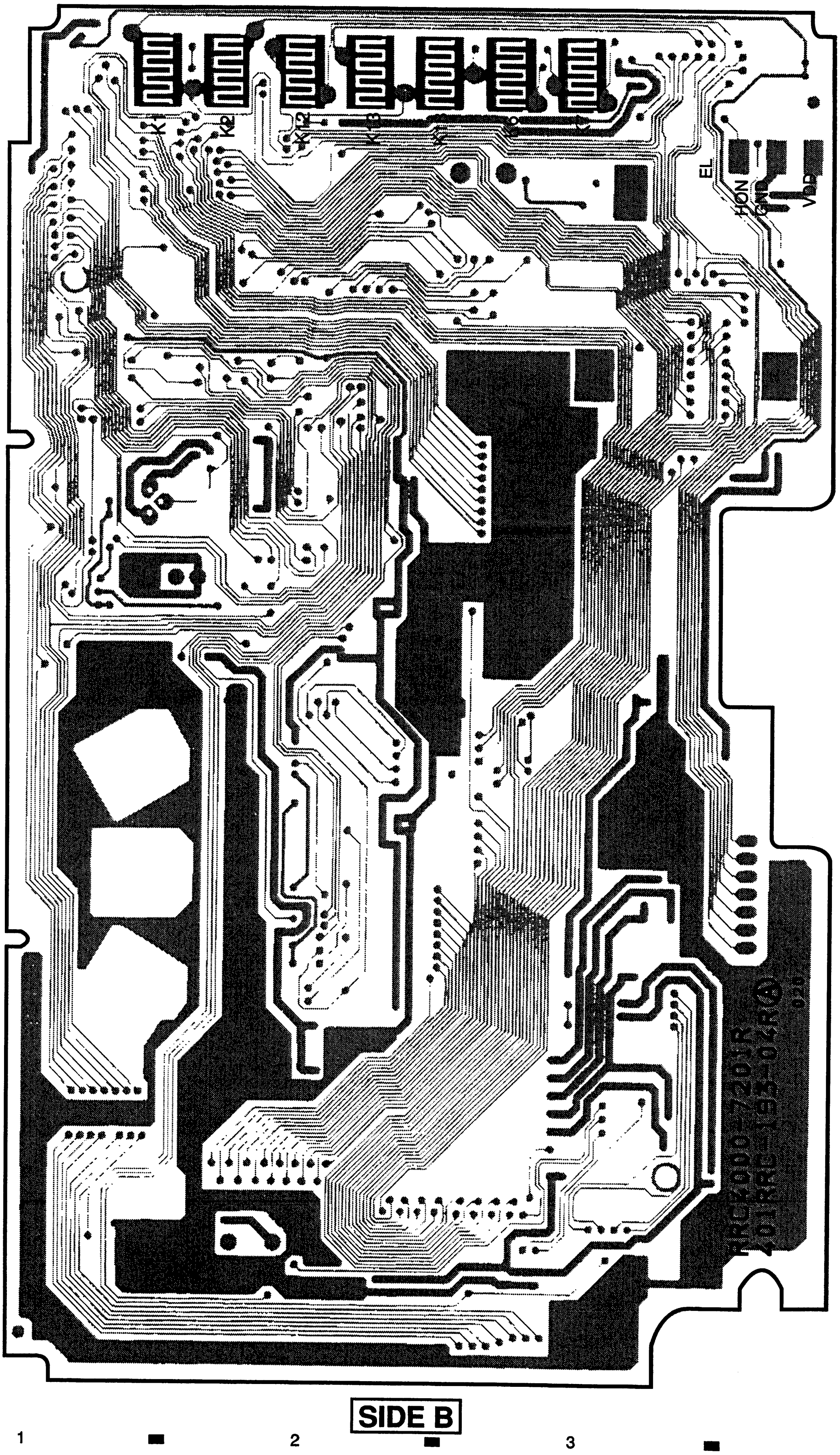
7.3.1.3 PCB DIAGRAM

Open (Remove)
JP2 (L).


A
B
C
D
IC6
IC7
JP4
JP3
R18
R19
R20
BAT
IC1
M30622
IC15
SW1
R49
C18
C16
JP1
IC5
IC16
IC17
IC18
D3
D5
Q5
C25
JP6
R21
SB260A30FS
R44
R45
R46
C9
C13
R22
R23
R24
R25
R26
Q10
Q8
Q12
Q11
C20
CN4
C10
C11
C12
R27
D6
R28
D7
R29
R30
D8
BA10324AF
Q1
IR3
R13
Q4
R12
R10
R9
Q14
R17
R41
IR2
R11
R5
R32
R38
R39
R40
IC10
R42
C22
C23
C24
IC2
M6627AFP
R4
Q8
IC6 IC7
Q7
IC1
IC9
IC15
IC16
IC17
Q6
IC5 IC18
Q13
IC4
IC3
Q5
Q1
Q10
Q9 Q4
Q12
Q2
Q11
Q14
Q3
IC10
IC2
Q8

Open (Remove)
JP1 (H).

SIDE A

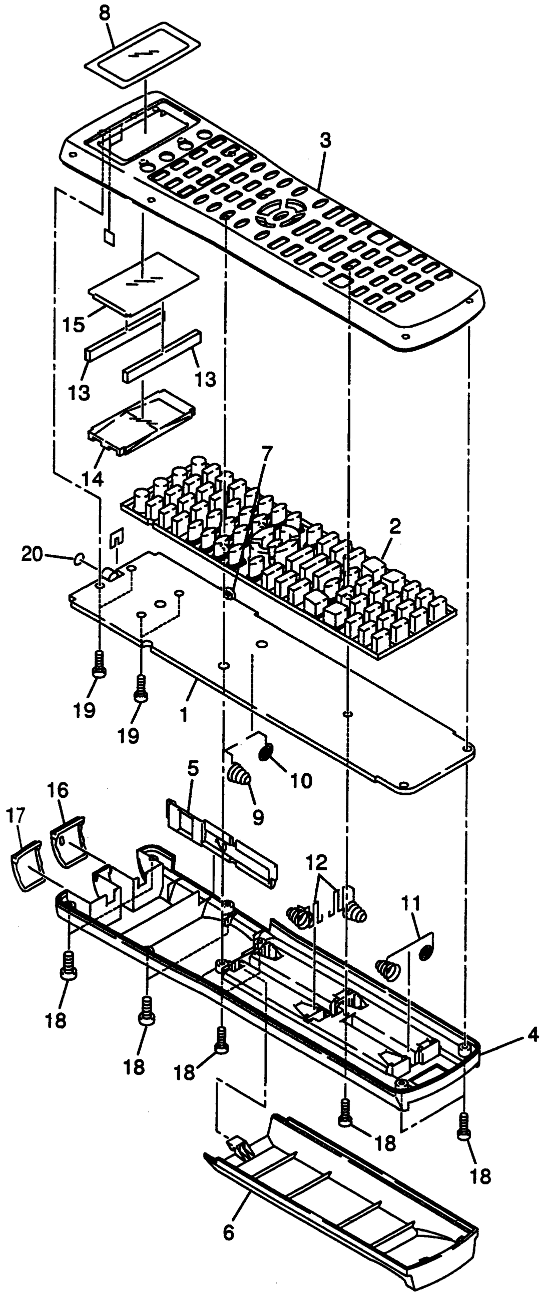

K1
K2
K12
K13
K11
K8
K7
EL
HON
GND
VDD
RCK000-7201R
401RRC-1593-04R(A)
A
B
C
D

SIDE B

7.3.2 AXD7299 (for VSX-47TX)

7.3.2.1 EXPLODED VIEWS AND PARTS LIST

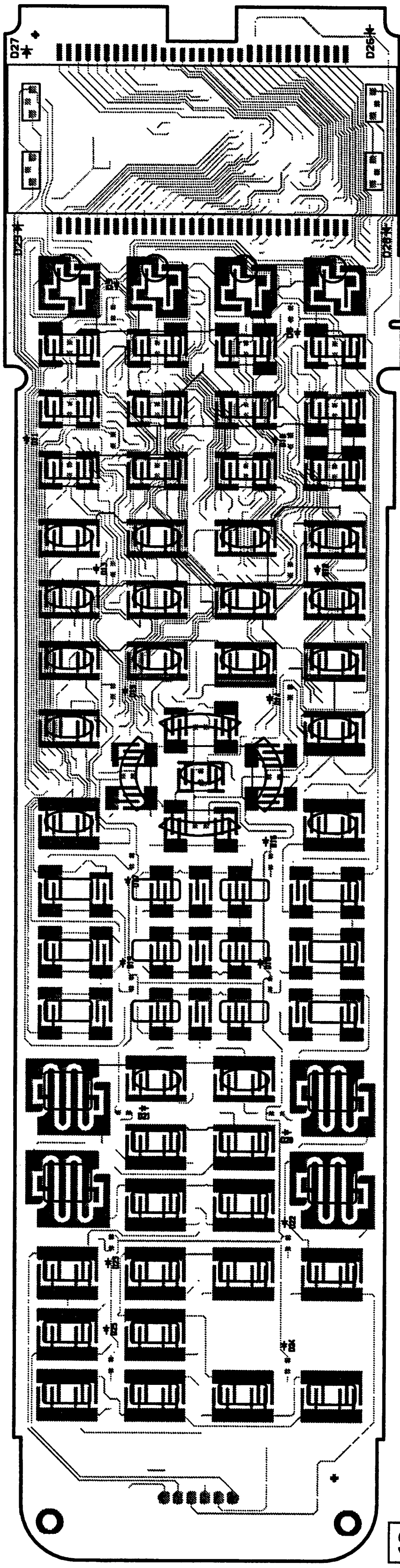
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*



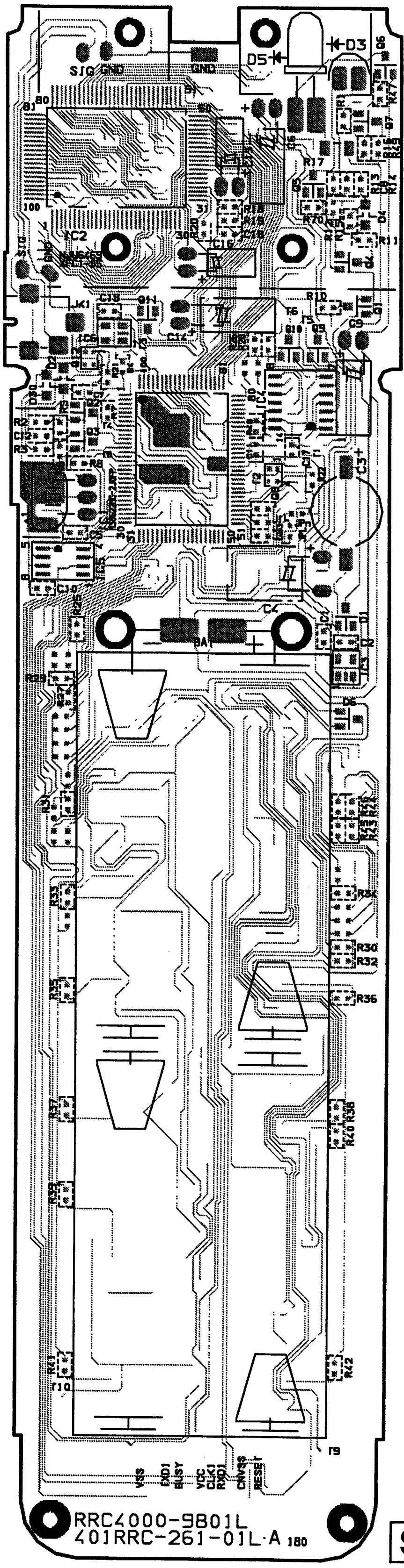
● PARTS LIST

Mark	No.	Description	Part No.
	1	PCB Assy	AZC7301
	2	Rubber Sheet	AZA7423
	3	Case A	AZN7890
	4	Case B	AZN7892
	5	Frame	AZN7894
	6	Battery Cover	AZN7896
	7	Mini Jack	LGY3312-0111
	8	Name Plate	201RRC-314-01L
	9	Terminal A	411RRC-212-01G
	10	Terminal B	411RRC-213-01G
	11	Battery Terminal	413RRC-143-01R
	12	Spring	413RRC-171-01G
	13	Connector	423RRC-046-01G
	14	Plate	481RRC-018-01G
	15	Sheeld Plate	801RRC-020-01L
	16	Filter A	811RRC-109-01G
	17	Filter B	811RRC-110-01G
	18	Screw	A-BA2008-225002
	19	Screw	A-BJ2006
	20	Microphone	WM-60A

7.3.2.2 PCB DIAGRAM


D27
D26
D25
D28

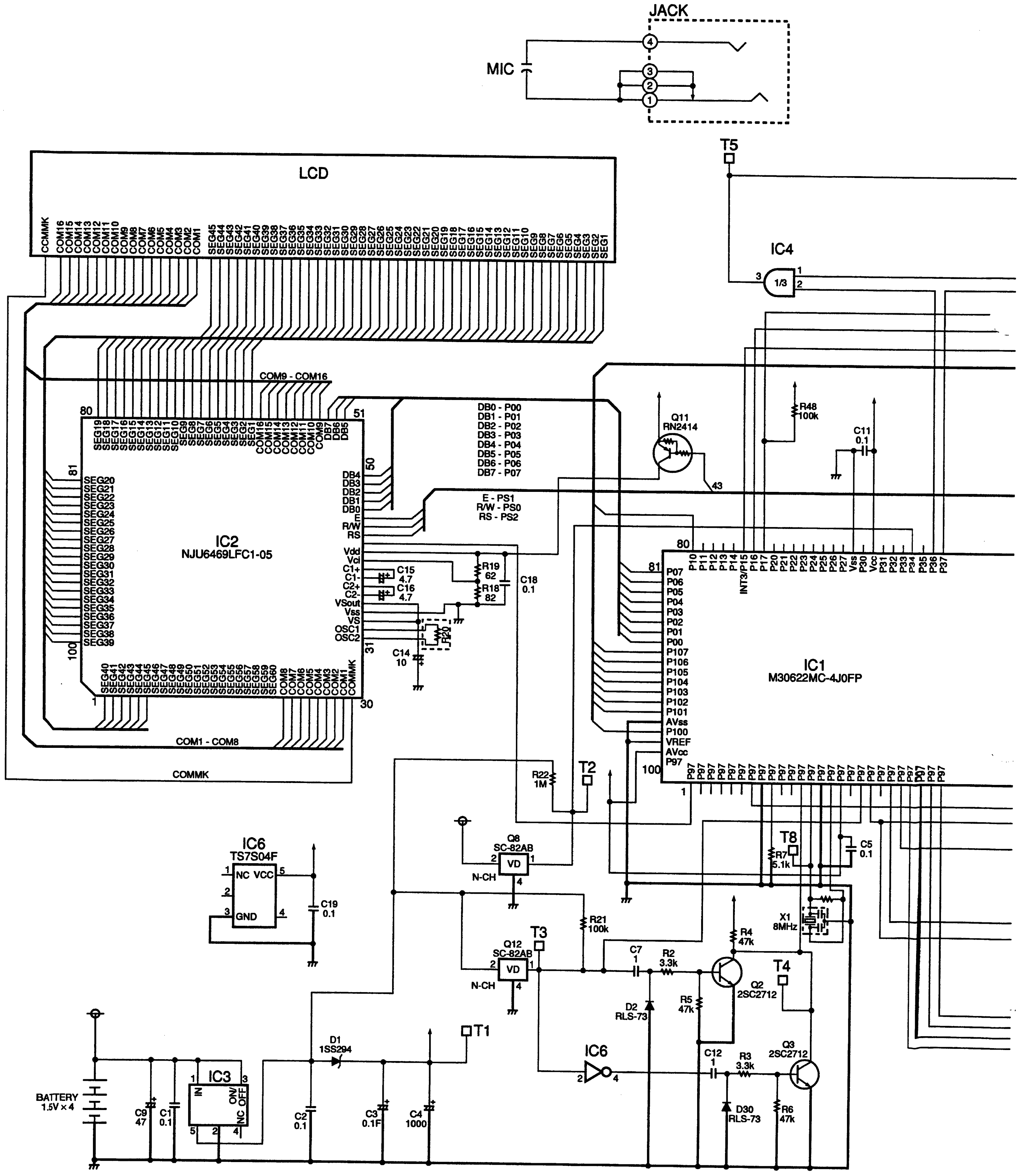
SIDE A

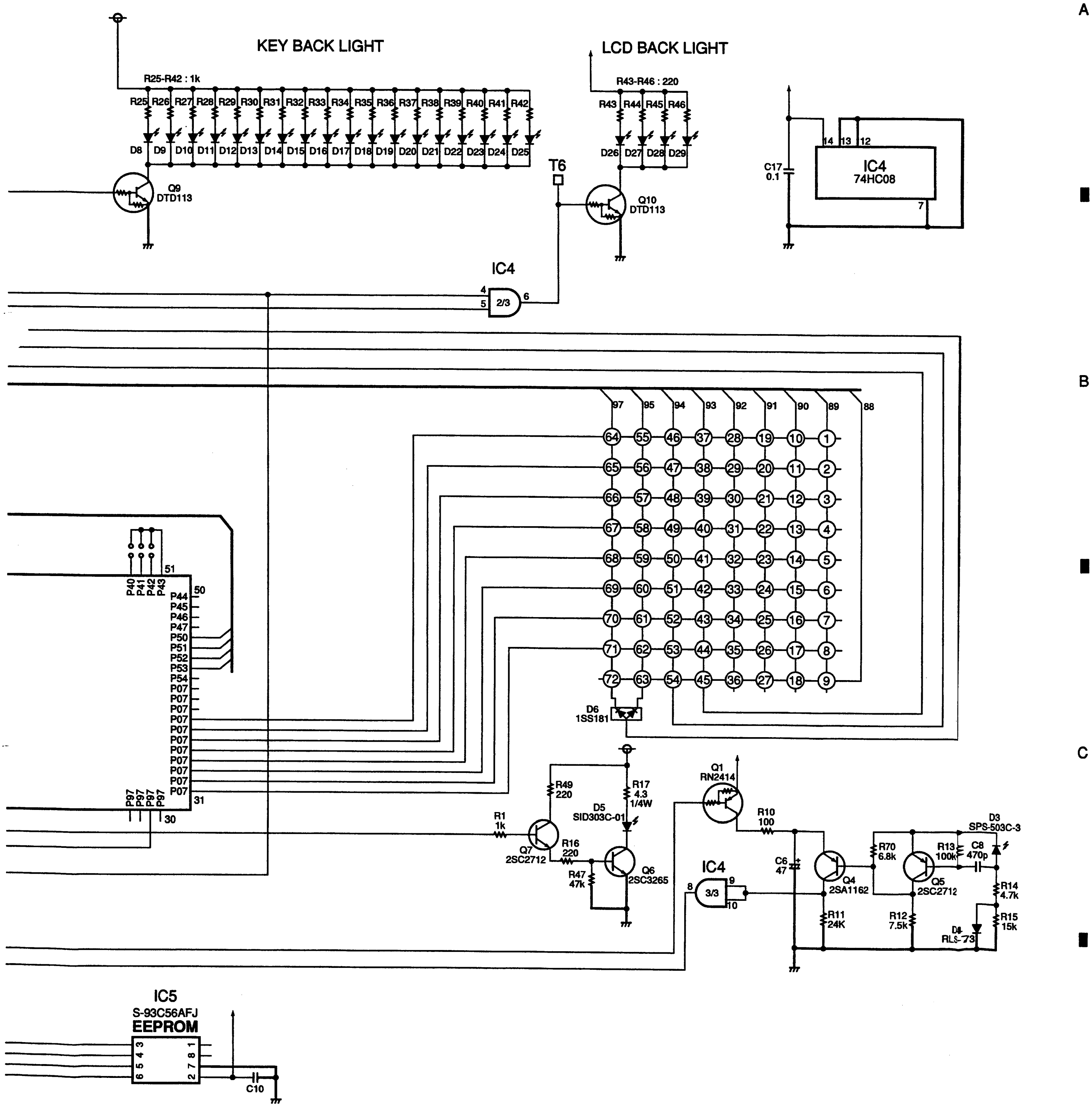

SIG GND
GND
D5
D3
IC2
BAT
C4
C31
R36
R30
R32
VSS
BUSY
VCC
CNVSS
RESET
RRC4000-9801L
401RRC-261-01L·A

SIDE B

A
B
C
D

7.3.2.3 SCHEMATIC DIAGRAM


JACK
MIC
④
③
②
①
T5
LCD
CCOMMK COM16 COM15 COM14 COM13 COM12 COM11 COM10 COM9 COM8 COM7 COM6 COM5 COM4 COM3 COM2 COM1
SEG45 … SEG1
IC4
1/3
3
1
2
COM9 - COM16
80
51
81
50
100
31
1
30
IC2
NJU6469LFC1-05
SEG19 … SEG1 COM16 … COM9 DB7 DB6 DB5
SEG20 … SEG39
SEG40 … SEG60 COM8 … COM1 COMMK
DB4 DB3 DB2 DB1 DB0 E R/W RS
Vdd Vcl C1+ C1- C2+ C2- VSout Vss VS OSC1 OSC2
DB0 - P00
DB1 - P01
DB2 - P02
DB3 - P03
DB4 - P04
DB5 - P05
DB6 - P06
DB7 - P07
E - PS1
R/W - PS0
RS - PS2
C15 4.7
C16 4.7
R19 62
R18 82
C18 0.1
R20
C14 10
COM1 - COM8
COMMK
Q11
RN2414
43
R48 100k
C11 0.1
IC1
M30622MC-4J0FP
P10 P11 P12 P13 P14 INT3/P15 P16 P17 P20 P21 P22 P23 P24 P25 P26 P27 Vss P30 Vcc P31 P32 P33 P34 P35 P36 P37
P07 P06 P05 P04 P03 P02 P01 P00 P107 P106 P105 P104 P103 P102 P101 AVss P100 VREF AVcc P97
P97
R22 1M
T2
IC6
TS7S04F
NC VCC
GND
C19 0.1
Q8
SC-82AB
VD
N-CH
T8
R7 5.1k
C5 0.1
X1 8MHz
R21 100k
T3
Q12
SC-82AB
VD
N-CH
C7 1
R2 3.3k
R4 47k
Q2 2SC2712
T4
R5 47k
D2 RLS-73
T1
D1 1SS294
IC6
2
4
C12 1
R3 3.3k
Q3 2SC2712
D30 RLS-73
R6 47k
IC3
IN
ON/OFF
NC
BATTERY 1.5V × 4
C9 47
C1 0.1
C2 0.1
C3 0.1F
C4 1000


KEY BACK LIGHT
R25-R42 : 1k
R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40 R41 R42
D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25
Q9
DTD113
LCD BACK LIGHT
R43-R46 : 220
R43 R44 R45 R46
D26 D27 D28 D29
T6
Q10
DTD113
IC4
2/3
4
5
6
C17
0.1
14 13 12
IC4
74HC08
7
97 95 94 93 92 91 90 89 88
64 55 46 37 28 19 10 1
65 56 47 38 29 20 11 2
66 57 48 39 30 21 12 3
67 58 49 40 31 22 13 4
68 59 50 41 32 23 14 5
69 60 51 42 33 24 15 6
70 61 52 43 34 25 16 7
71 62 53 44 35 26 17 8
72 63 54 45 36 27 18 9
D6
1SS181
51
P40 P41 P42 P43
50
P44 P45 P46 P47 P50 P51 P52 P53 P54 P07 P07 P07 P07 P07 P07 P07 P07 P07 P07 P07 P07
31
P97 P97 P97 P97
30
R49
220
R17
4.3
1/4W
D5
SID303C-01
R1
1k
Q7
2SC2712
R16
220
R47
47k
Q6
2SC3265
Q1
RN2414
R10
100
IC4
3/3
8
9
10
C6
47
Q4
2SA1162
R11
24K
R70
6.8k
R13
100k
C8
470p
D3
SPS-503C-3
Q5
2SC2712
R12
7.5k
R14
4.7k
R15
15k
D4
RLS-73
IC5
S-93C56AFJ
EEPROM
3 4 5 6
1 8 7 2
C10

7.3.2.4 PCB PARTS LIST

NOTES: ●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

Mark	No.	Description	Part No.
	IC1		M30622MC-4JOFA
	IC2		NJU6469LFC1-05
	IC3		S-818A33AMC-BGN
	IC4		74HC08
	IC6		TC7S04F
	Q1,Q11		RN2414
	Q2,Q3,Q5,Q7		2SC2712
	Q4		2SA1162
	Q6		2SC3265
	Q9,Q10		DTD113ZK
	Q12		S-80826ANNP-EDP
	Q8		S-80836ANNP-EDO
	D5		SID303C-01
	D1		1SS294
	D3		SPS-503C
	D2,D4,D30		RLS-73
	D6		1SS181
	D8-D25		BR1111C
	D26-D29		FA1101F-430
	C3		0.1F/6.3v
	C4		1000μF/6.3v
	C6, C9		47μF/10v
	C14		10μF/10v
	C2,C5,C11,C17-C19		0.1μF/25v
	C7,C12		1μF/25v
	C8		470pF/25v
	R17		15Ω 1/4w
	Other Resistors		RS1/16S☐☐☐J
	XI	Ceramic Resona(8MHz)	CST8.00MTW
	LCD		T557007

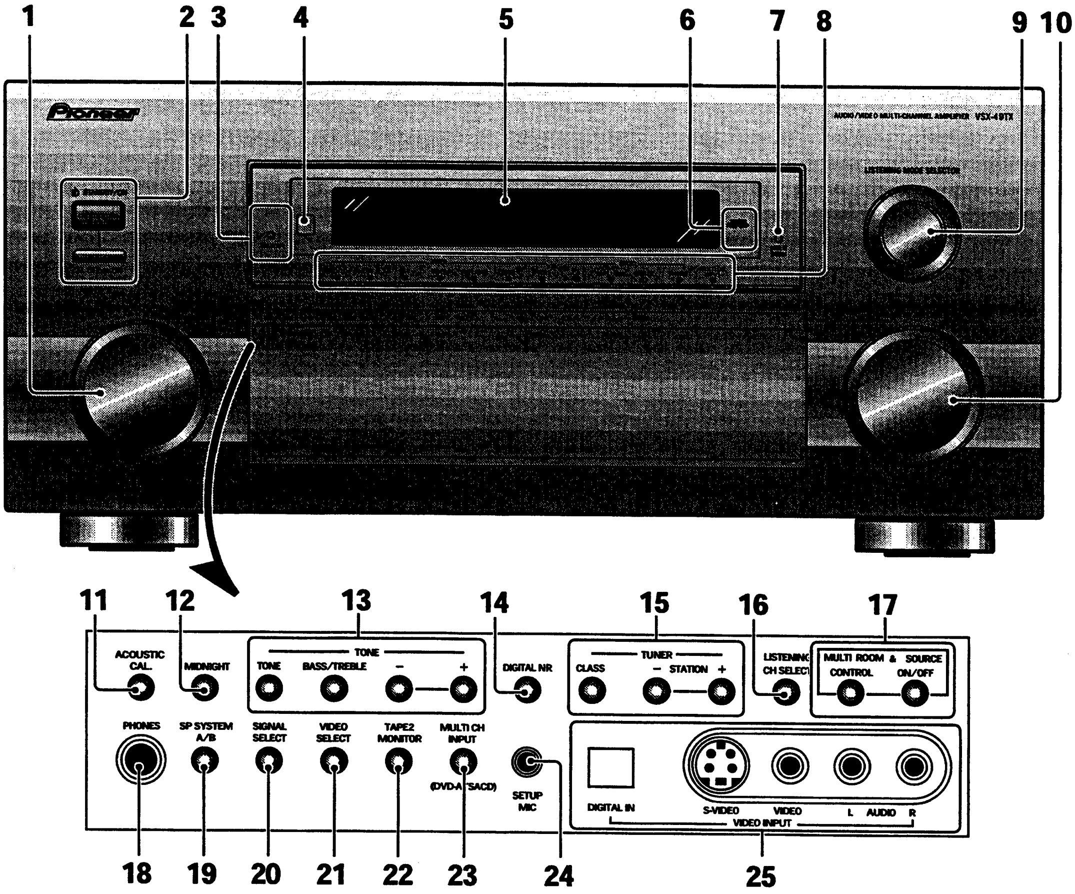
8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ Front Section (VSX-49TX)

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.

VSX-49TX


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
ACOUSTIC CAL
MIDNIGHT
TONE
TONE
BASS/TREBLE
–
+
DIGITAL NR
TUNER
CLASS
– STATION +
LISTENING CH SELECT
MULTI ROOM & SOURCE
CONTROL
ON/OFF
PHONES
SP SYSTEM A/B
SIGNAL SELECT
VIDEO SELECT
TAPE2 MONITOR
MULTI CH INPUT
(DVD-A/SACD)
SETUP MIC
DIGITAL IN
S-VIDEO
VIDEO
L AUDIO R
VIDEO INPUT
18
19
20
21
22
23
24
25

1 **INPUT SELECTOR dial**
Turn to select a source component. (You can also use to select a source in the MULTI-ROOM & SOURCE mode.) The input indicators show the current component.

2 **⏻ STANDBY/ON button–power ON/OFF button**
Press to switch the receiver ON or into STANDBY mode or to switch OFF.

3 **STANDBY indicator**
Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [0.65 W] in the standby mode.)

4 **Remote sensor**
Receives the signals from the remote control.

5 **Display**

6 **MCACC indicator**
Lights when the ACOUSTIC CAL EQ is on. (After the Auto Surround Sound Setup has been completed the ACOUSTIC CAL EQ is set on and this display will light.)

7 **MULTI-ROOM indicator**
Shows whether the multi-room function is active or not.

8 **INPUT indicators**
Shows which source component is selected. The MULTI CH INPUT indicator lights when a component connected to MULTI CH INPUT is selected.

9 **LISTENING MODE SELECTOR dial**

10 **MASTER VOLUME dial**
Adjusts the overall receiver volume.

11 **ACOUSTIC CAL. button**
Use to switch on and off the Acoustic Calibration EQ.

12 **MIDNIGHT button**
Use to switch the receiver into MIDNIGHT mode.

13 TONE control buttons

TONE button
This button switches between TONE ON and TONE BYPASS, which bypasses the tone circuitry.

BASS/TREBLE button
Use to select whether the bass or treble will be adjusted..

(–/+) buttons
Use to adjust the frequencies.

14 DIGITAL NR button

Switches the DIGITAL NR on or off (cannot be used in THX).

15 TUNER CONTROL buttons

CLASS button – Press repeatedly to switch the preset station classes.

–/+ button – Use to choose programmed radio stations.

16 LISTENING CH SELECT button

Use this button to select the number of channels used for playback (5.1, 7.1, or AUTO).

17 MULTI-ROOM & SOURCE buttons

Press to use the multi room feature (requires an optional PIONEER Multi-Room Remote Sensor Unit MR-100 or another IR receiver).

CONTROL button: Used together with the INPUT SELECTOR to select the function or use with the MASTER VOLUME to select the volume of the MULTI ROOM system.

ON/OFF button: Use to switch Multi-room function on or off.

18 PHONES jack

Connect headphones for private listening (no sound will be heard through the speakers).

19 SP SYSTEM A/B button

Use to select the speaker system. A is the primary setting. The button cycles through the speaker systems as follows: A⇒B⇒A&B⇒off. Different conditions apply when bi-amping the speakers. For this case refer to page 71.

20 SIGNAL SELECT button

Use to select the type of signal being input into the receiver. Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – To select an analog signal.

DIGITAL – To select an optical or coaxial digital signal.

DD RF – To select an DD RF signal.

AUTO – This is the default setting. If there are analog, digital and DD RF signals input, the receiver automatically selects the DD RF signal. If there are analog and digital signals input the digital will be selected.

21 VIDEO SELECT button

Switches the receiver between the various types of video input.

22 TAPE 2 MONITOR button

Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/ outputs. Allows monitoring of a recording as it's being made.

23 MULTI CH INPUT button

Use when you have hooked up an external component that can decode other types of signals and input them into the VSX-49TX.

24 SETUP MIC jack

Plug in the setup mic here. This is very important for setting up your system to get proper surround sound.

25 Front VIDEO INPUT jacks

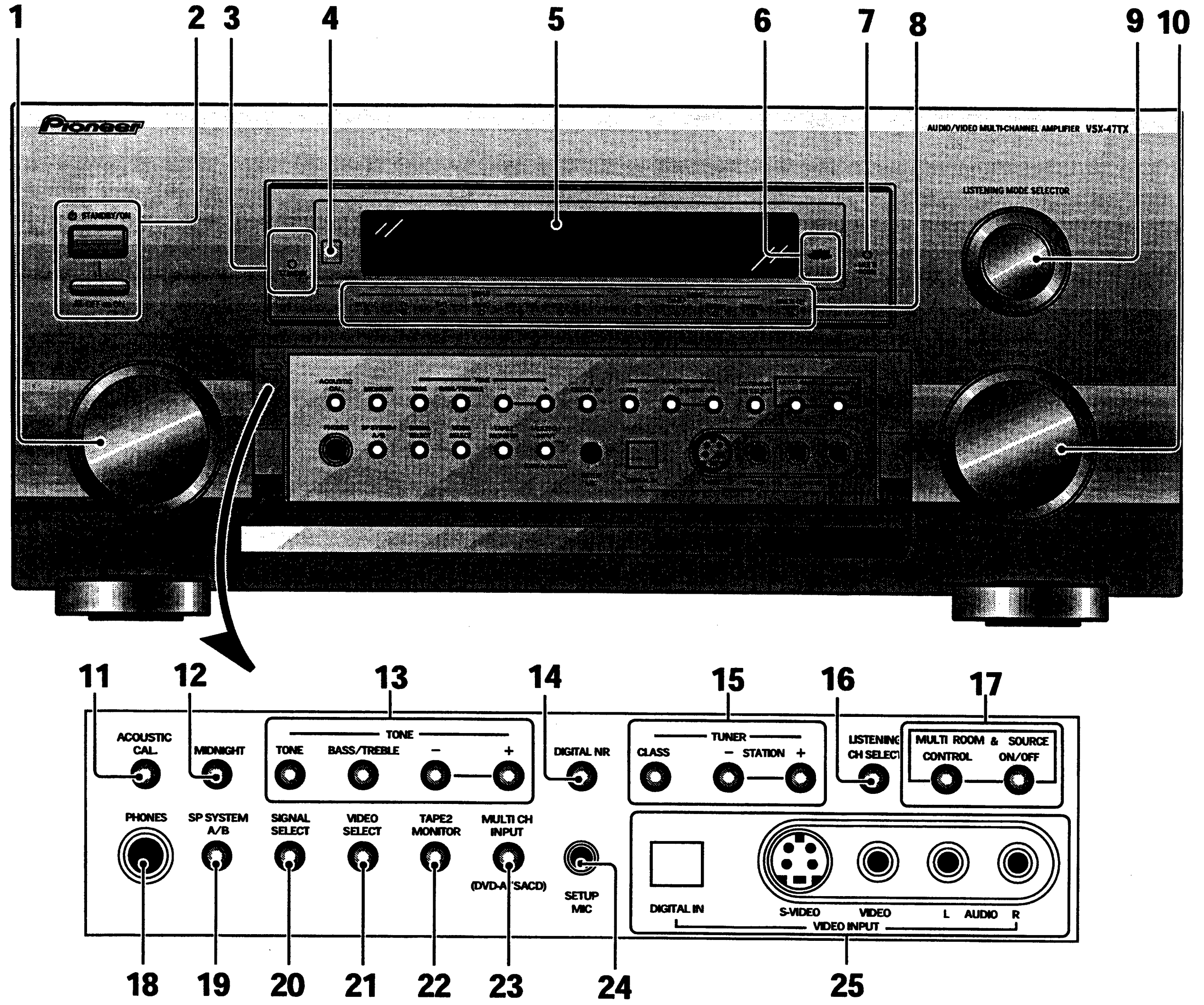
DIGITAL IN : digital input for connecting a game console, portable DVD player, video camera (etc.), that has an optical digital connection.

S VIDEO : Video input for connecting a video camera (etc.), that has an S video out.

RCA VIDEO / AUDIO (L/R) : Video input for connecting a video camera, etc. that has standard RCA video/audio outputs.

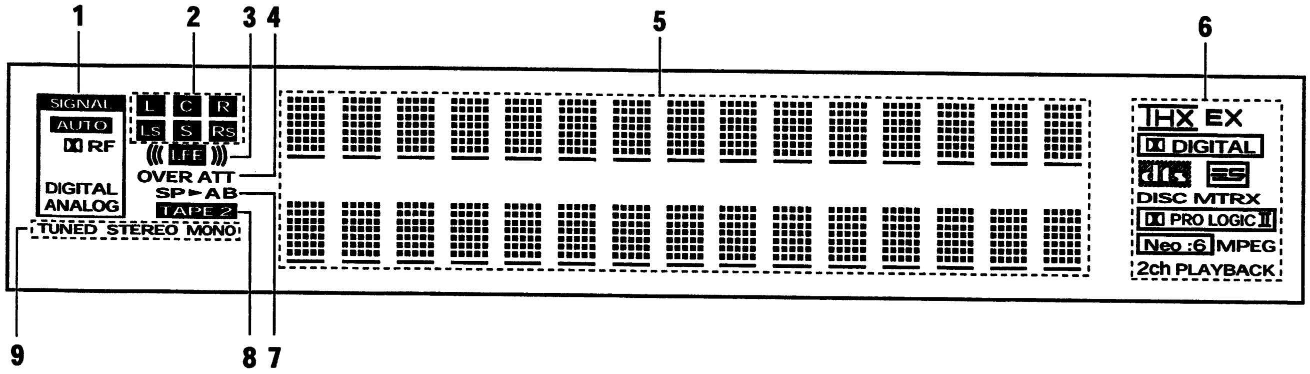
■ Front Section (VSX-47TX)

VSX-47TX


1
2
3
4
5
6
7
8
9
10
Pioneer
STANDBY/ON
AUDIO/VIDEO MULTI-CHANNEL AMPLIFIER VSX-47TX
LISTENING MODE SELECTOR
11
12
13
14
15
16
17
ACOUSTIC CAL
MIDNIGHT
TONE
TONE
BASS/TREBLE
–
+
DIGITAL NR
TUNER
CLASS
– STATION +
LISTENING CH SELECT
MULTI ROOM & SOURCE
CONTROL
ON/OFF
PHONES
SP SYSTEM A/B
SIGNAL SELECT
VIDEO SELECT
TAPE2 MONITOR
MULTI CH INPUT
(DVD-A/SACD)
SETUP MIC
DIGITAL IN
S-VIDEO
VIDEO
L AUDIO R
VIDEO INPUT
18
19
20
21
22
23
24
25

■ Display (VSX-49TX)

All the display information is explained and /or referenced here.



1 SIGNAL SELECT indicators
Light to indicate the input signal you selected.

ANALOG : Lights when an analog signal is selected.
DIGITAL : Lights when a digital signal is selected.
DDRF : Lights when an DD RF signal is selected.
AUTO : Lights when the receiver is set to select the input signal automatically.

2 Program Format indicators

For Dolby Digital or DTS sources : These indicators change according to which channels are active in the source. When all three **LS** (left surround), **S** (surround) and **RS** (right surround) light at the same time it means a source with a 6.1ch playback flag is being used.

L – Left front channel.
C – Center channel.
R – Right front channel.
LS – Left surround channel.
S – Surround channel (mono).
RS – Right surround channel.
LFE – Low frequency effects channel.

3 ((( ))) – Lights when LFE signal is input.

4 Analog level indicators
OVER – This lights if the signal is in danger of distorting for analog source signals. Press INPUT ATT on the front panel to lower the signal level.

ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

5 Character display
Shows current mode, status, etc.

6 Digital format indicators
DD DIGITAL : Lights when a Dolby Digital signal is detected.
DTS: Lights when a DTS signal is detected.
MPEG: Lights when an MPEG signal is detected.
THX: Lights when the HOME THX mode is selected.
EX: Lights during Surround EX matrix processing.
ES: Lights when a decoding DTS ES audio.
DISC: Lights during DTS ES discrete processing
MTRX: Lights during DTS ES matrix processing
DD PRO LOGIC II : Lights during Dolby Pro Logic II processing.
NEO:6: Lights during NEO:6 processing.
2CH PLAYBACK Lights during two-channel playback.

7 Speaker indicators
Light to indicate the current speaker system, A and/or B.

8 TAPE 2 indicator
Lights when the TAPE 2 monitor is on.

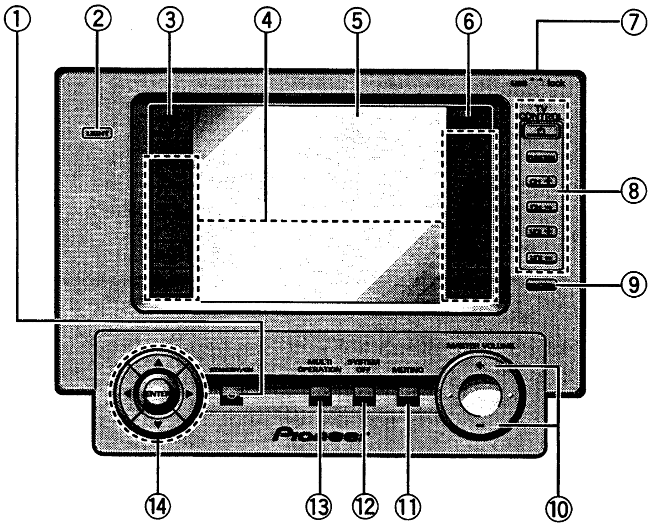
9 TUNER indicators
MONO : Lights when the tuner is set to receive FM broadcasts and when selected MPX mode.

STEREO : Lights when a FM stereo broadcast is received in the auto stereo mode.

TUNED : Lights when a broadcast is received.

■ Remote Control Unit (VSX-49TX)

These pages describe the buttons on the remote control used to operate the receiver. Since the screen on this LCD remote control changes when you select a different function, explanations of buttons for controlling other components/functions can be found in the sections for those components/functions.



memo

To turn on the remote control touch it anywhere on the screen.

① **⏻ STANDBY/ON button**
Press to turn power of the receiver on or to STANDBY (off).

② **LIGHT button**
Use to turn on and off the backlight on the remote control receiver screen.

③ **RECEIVER button**
Press to switch the remote control into receiver mode or to get receiver screens.

④ **Function buttons**
These buttons are the basic controls that switch the mode of the receiver and the remote control, which allows you to control your other components.

⑤ **Remote control screen**

⑥ **REMOTE SETUP button**
Use to customize the remote control functions and the remote control itself. (See "Setting Up Remote Control of Other Components" starting on)

⑦ **LOCK switch**
Use to lock the remote control so it doesn't turn on by accident. For normal use keep it set in USE.

⑧ **TV CONTROL buttons**
The following buttons are used to control the TV only and can be used once they are preset to control your TV.
⏻ STANDBY/ON : Press to turn the power of the TV on/off.
INPUT : Press to select the input source for the TV.
CH +/– : Use these buttons to change the channel of the TV.
VOL +/– : Press to control the volume of the TV.

⑨ **INPUT button**
Press to select a source. The button will cycle through all the possible sources.

⑩ **MASTER VOLUME button**
Use to raise or lower the volume of the receiver.

⑪ **MUTING button**
Press to mute or restore the volume.

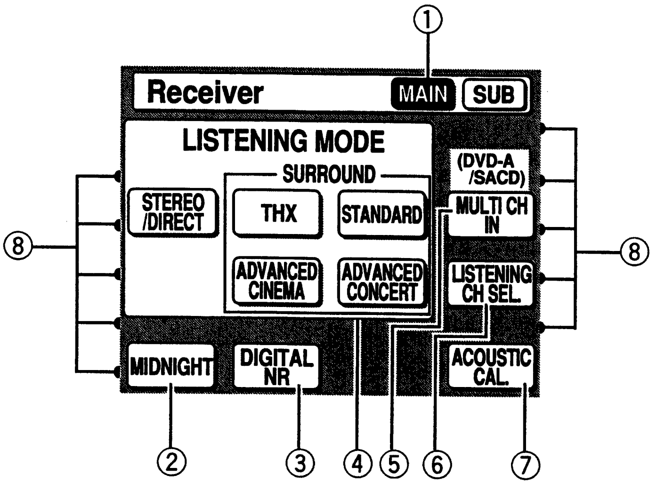
⑫ **SYSTEM OFF button**
This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will be turned off.
For example : If you programmed power off in the SYSTEM OFF settings for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⑬ **MULTI OPERATION button**
Use this button to start the MULTI OPERATION mode. See p.80 & 81 for how to program and use the MULTI OPERATION mode.

⑭ **▲/▼/◄/►/ENTER buttons**
These buttons can be used for a variety of operations. In the SYSTEM SETUP menu, the ▲/▼ buttons can be used to adjust CHANNEL DELAY or CHANNEL LEVEL.
The ▲/▼ buttons, pressed simultaneously, can be use to lock or unlock a setting (see p.67).
These buttons are also used to control the DVD menu for the DVD remote control screen. Also, in TUNER mode they can select station and frequency.

Basic Receiver LCD Screens

Receiver MAIN Screen


①
Receiver
MAIN
SUB
LISTENING MODE
SURROUND
STEREO /DIRECT
THX
STANDARD
ADVANCED CINEMA
ADVANCED CONCERT
(DVD-A /SACD)
MULTI CH IN
LISTENING CH SEL.
MIDNIGHT
DIGITAL NR
ACOUSTIC CAL.
⑧
⑧
②
③
④
⑤
⑥
⑦

① **Receiver MAIN button**
Press this button to select the MAIN receiver screen (above) when the remote control is on the SUB receiver screen.

② **MIDNIGHT button**
Switches the MIDNIGHT listening mode on or off (for all modes except THX).

③ **DIGITAL NR button**
Switches the DIGITAL NR on or off (for all modes except THX).

④ **LISTENING MODE buttons**
STEREO/DIRECT: Switches the receiver into STEREO mode if it was in a different listening mode or toggles between DIRECT and STEREO mode.
THX: Press to put the receiver into HOME THX sound mode.
STANDARD: Press to put the receiver into STANDARD listening mode.
ADVANCED CINEMA: Press to put the receiver into ADVANCED CINEMA listening mode.
ADVANCED CONCERT: Press to put the receiver into ADVANCED CONCERT listening mode.

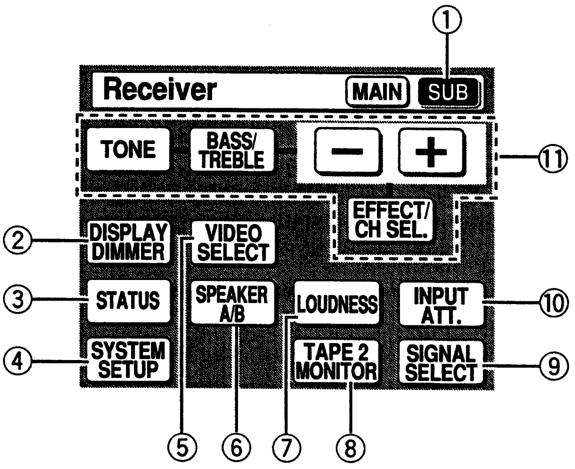
⑤ **MULTI CH IN button**
Use to hook up an external component (for example a DVD-Audio player) that can decode other types of signals and input them into the VSX-49TX.

⑥ **LISTENING CH SEL. button**
Use this button to select a listening channel (5.1, 7.1, or AUTO)

⑦ **ACOUSTIC CAL. button**
Press to switch on/off the acoustic calibration EQ.

⑧ **DIRECT FUNCTION on/off indicator**
These dots indicate weather the DIRECT FUNCTION is on or off for the function (DVD/LD, CD, etc.) they point to.

Receiver SUB Screen



① **Receiver SUB button**
Press this button to select the SUB receiver screen (above) when the remote control is on the main receiver screen.

② **DISPLAY DIMMER button**
Use to adjust the brightness of the receiver's display.

③ **STATUS button**
Use to display the present mode of the receiver and other selected settings.

④ **SYSTEM SETUP button**
Use for all system setups, including the speaker and sound systems. For more information see "Setting up for Surround Sound" starting on.

⑤ **VIDEO SELECT button**
Use to toggle between the different video input possibilities.

⑥ **SPEAKER A/B button**
Use to select the speaker system. A is the primary setting. The button cycles through the speaker systems as follows: A⇨B⇨A&B⇨off. Different conditions apply when bi-amping the speakers.

⑦ **LOUDNESS button**
Switches the LOUDNESS mode on or off (for all modes except THX).

⑧ **TAPE 2 MONITOR button**
Selects the tape deck (or MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/ outputs. Allows monitoring of a recording as it's being made.

⑨ **SIGNAL SELECT button**
Press SIGNAL SELECT repeatedly to select one of the following:
ANALOG : To select an analog signal.
DIGITAL : To select a digital signal
⊏⊐ RF : To select an ⊏⊐ RF signal
AUTO : This is the default. If there are analog, digital and ⊏⊐ RF signals input, the receiver automatically selects the ⊏⊐ RF signal. If there are analog and digital signals input the digital will be selected.

⑩ **INPUT ATT. button**
Use to lower the input level of an analog signal that is too powerful, thus causing the receiver to distort. In this case the overload (OVER) indicator will be flashing furiously.

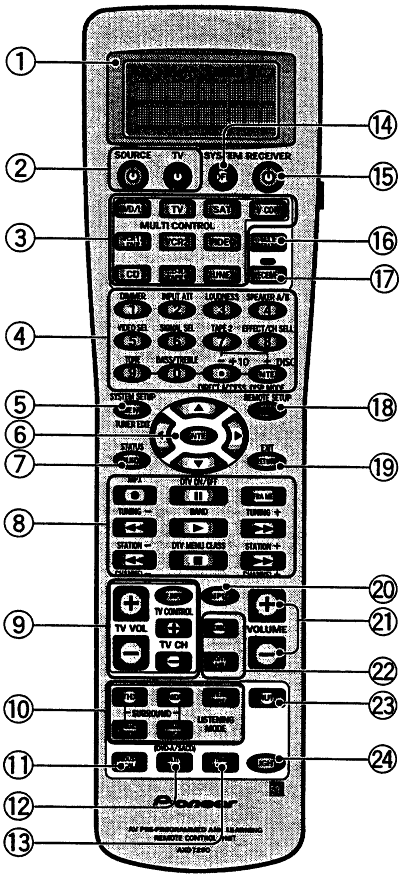
⑪ **TONE control/EFFECT CH SEL. buttons**

TONE button
This button has two functions. Firstly, it switches between TONE on and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the BASS & TREBLE (+/–) buttons.

EFFECT/CH SEL. button
Switches the tone adjust controls between the front, center, surround and surround back speakers. You can then use the + and – buttons to adjust the sound.
While in Advanced mode, you can also adjust the effect level.

■ Remote Control Unit (VSX-47TX)

These pages describe the buttons on the remote control used to operate the receiver.



① Remote Control Display Screen

② SOURCE button

Use this button to turn off other components. You must input the preset code in order to use this function .

TV button

This is a dedicated TV button. Use it to turn on/off your TV.

③ MULTI CONTROL buttons

The mode of the receiver and allow you to control your other components.

DVD/LD: Press to switch the remote control into DVD/LD mode.

TV/SAT: Press to switch the remote control into TV/SAT (satellite tuner) mode.

VCR 1: Press to switch the remote control into VCR 1 mode.

VCR 2: Press to switch the remote control into VCR 2 mode.

MD/TAPE 1: Press to switch the remote control into MD/TAPE 1 mode.

CD: Press to switch the remote control into CD mode.

TUNER: Press to switch the remote control into TUNER mode.

TV CONTROL: Press so that the remote control can operate the TV CONTROL commands.

④ Number buttons

These can be used for many purposes depending on the mode of the receiver. When the in receiver mode the buttons operate as below:

Display DIMMER

Use to adjust the brightness of the main display.

INPUT ATT. button

Use to lower the input level of an analog signal that is too powerful, thus causing the receiver to distort (in this case the overload indicator will be flashing furiously).

LOUDNESS button

Switches the LOUDNESS mode on or off (for all modes except THX and MULTI CH IN).

SPEAKER A/B button

Use to select the speaker system. A is the primary setting. It plays all speakers hooked up to the A system. A & B setting only plays the front speakers of both the A & B systems and the subwoofer. Multi channel sources will be down-mixed to these speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers. The button cycles through the speaker systems as follows:
A⇨B⇨A&B⇨off.

VIDEO SELECT button

Use to toggle between the different video input possibilities.

SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG : To select an analog signal.

DIGITAL : To select a digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1, VCR 1, VCR 2).

DD RF : To select an DD RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).

AUTO : This is the default. If there are analog, digital and DD RF signals input, the receiver automatically selects the DD RF signal. If there are analog and digital signals input the digital will be selected.TAPE 2 MONITOR button (See p.57) Selects the tape deck (or MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it's being made.

EFFECT/CH SEL. button

Switches the tone adjust controls between the front, center, surround and surround back speakers. You can then use the +and – buttons to adjust the sound.

TONE buttons

This button has two functions. Firstly, it switches between TONE on and TONE DIRECT, which bypasses the tone circuitry. Secondly, you need to press the button before using the CHANNEL SELECT buttons to adjust the BASS & TREBLE.

BASS & TREBLE buttons
Use to choose the high or low frequencies to adjust.

(+/–) buttons
Use to adjust the high and low frequencies, effect level and channel level.

⑤ **SYSTEM SET UP button**
Use to set up the speaker and sound systems. For more information see "Setting up for Surround Sound".

⑥ **▲/▼/◄/►/ENTER buttons**
These buttons can be used for a variety of operations. In the SYSTEM SETUP menu, the ▲/▼ buttons can be used to adjust CHANNEL DELAY or CHANNEL LEVEL.
These buttons are also used to control the DVD menu for the DVD remote control screen.

⑦ **STATUS button**
Use to display the present mode the receiver is in and another settings.

⑧ **Command button for other components**
Use these buttons to control other components you selected with the MULTI CONTROL buttons. You must input the preset code in order use this function .

⑨ **TV CONTROL buttons**
The following buttons are used to control the TV only and can be used once they are preset to control your TV.
TV INPUT : Press TV INPUT to select the TV for remote control operation.
TV CH +/– : Use these buttons to change the channel of the TV.
TV VOL +/– : Press to control the volume of the TV.

⑩ **LISTENING MODE buttons**
THX : Press to put the receiver into THX sound mode .
STANDARD : Press to put the receiver into STANDARD sound mode .
STEREO/DIRECT : Switches the receiver into STEREO mode if it was in a different sound mode or toggles between DIRECT and STEREO mode.
ADVANCED CINEMA : Press to put the receiver into ADVANCED CINEMA sound mode.
ADVANCED CONCERT : Press to put the receiver into ADVANCED CONCERT: sound mode .

⑪ **ACOUSTIC CAL. button**
Press to switch on/off the acoustic calibration function.

⑫ **MULTI CH INPUT button**
Use to hook up an external component that can decode other types of signals and input them into the VSX-47TX.

⑬ **LISTENING CH SELECT.**
Use this button to select a listening channel to add or subtract the amount of effect applied in Advanced Theater or other Listening modes.

⑭ **SYSTEM OFF button**
This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will be turned off.
For example : If you programmed power off in the SYSTEM OFF settings for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⑮ **⏻ RECEIVER (standby/power on) button**
Press to turn power of the receiver on or to standby (off).

⑯ **MULTI OPERATION button**
Use this button to start the MULTI OPERATION mode. for how to program and use the MULTI OPERATION mode.

⑰ **RECEIVER button**
Use this button to switch the remote control into receiver mode in order ot get certain receiver functinos or do receiver setups .

⑱ **REMOTE SETUP button.**
Use to customize the remote control functions and the remote control itself. (See "Setting Up Remote Control of Other Components" .

⑲ **EXIT button**

⑳ **INPUT button**
Press to select an input source. The button will cycle through all the possible sources.

㉑ **VOLUME (+/–) buttons**
Use to raise or lower the volume of the receiver.

㉒ **MIDNIGHT button**
Switches the MIDNIGHT listening mode on or off (for all modes except THX and MULTI CH IN).

DIGITAL NR button
Switches the DIGITAL NR on or off (for all modes except THX and MULTI CH IN).

㉓ **MUTE button**
Press to mute or restore the volume.

㉔ **LIGHT button**
Use to light the remote control screen.

8.2 SPECIFICATIONS

VSX-49TX :

Amplifier Section

Continuous average power output of 160 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output	
Front	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Center	130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Surround	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Surr. back	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)

Audio Section

Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
LINE	382 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1kHz)	
PHONO MM	120 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
LINE	5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
LINE	382 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+4/+2 dB (100Hz/10 kHz) (at volume position -40dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	86 dB
LINE	105 dB
MULTI CHANNEL IN	103 dB(Channel Level: Bypass)
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
PHONO MM	83 dB
LINE	93 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

Maintenance of External Surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	70 dB
Frequency Response	5 Hz to 10 MHz $^{+0}_{-3}$ dB

Component Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	70 dB
Frequency Response	5 Hz to 40 MHz $^{+0}_{-3}$ dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	710 W
Power Consumption in Standby mode	0.65 W
AC Outlet	
SWITCHED	100 W (0.8 A) MAX
Dimensions	440 (W) x 203 (H) x 472 (D) mm (17-5/16 (W) x 8 (H) x 18-9/16 (D) in.)
Weight (without package)	29.3 kg (64 lb 6 oz)

Furnished Parts

FM wire Antenna	1
AM Loop Antenna	1
AC Power Cord	1
"AA" IEC LR6 batteries	4
Remote Control Unit	1
Touch Pen	1
Cushion for Remote	4
Microphone	1
U-shaped connectors	2
Operating Instructions	1

NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

VSX-47TX :

Amplifier Section

Continuous average power output of 160 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output	
Front	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Center	130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Surround	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Surr. back	130 W + 130 W (20 Hz-20 kHz, 0.09 %, 8 Ω)

Audio Section

Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
LINE	382 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1kHz)	
PHONO MM	120 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
LINE	5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
LINE	382 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+4/+2 dB (100Hz/10 kHz) (at volume position -40dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	86 dB
LINE	105 dB
MULTI CHANNEL IN	103 dB(Channel Level: Bypass)
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
PHONO MM	83 dB
LINE	93 dB

Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	70 dB
Frequency Response	5 Hz to 10 MHz $^{+0}_{-3}$dB

Component Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	70 dB
Frequency Response	5 Hz to 40 MHz $^{+0}_{-3}$dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	710 W
Power Consumption in Standby mode	0.65 W
AC Outlet	
SWITCHED	100 W (0.8 A) MAX
Dimensions	440 (W) x 203 (H) x 472 (D) mm (17-5/16 (W) x 8 (H) x 18-9/16 (D) in.)
Weight (without package)	29.3 kg (64 lb 6 oz)

Furnished Parts

FM wire Antenna	1
AC Power Cord	1
AM Loop Antenna	1
"AA" IEC LR6 batteries	4
Remote Control Unit	1
Remote Control Cable	1
Remote Control Stand	1
U-shaped connectors	2
Operating Instructions	1

NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. Manufactured under license from Digital Theater Systems, Inc.

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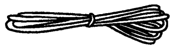
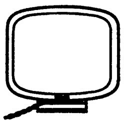
* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

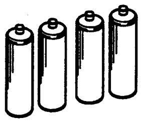
■ Accessories (VSX-49TX)



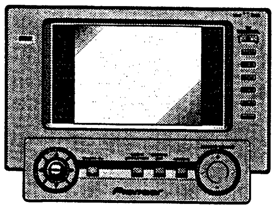
FM wire antenna
(ADH7010)



AM loop antenna
(ATB7009)

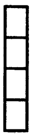


"AA" IEC LR6
batteries x 4

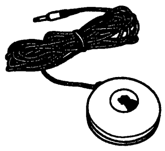


Remote control unit
(Remocon49 : AXD7295)

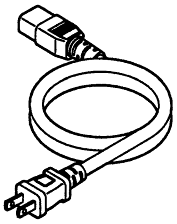
Touch pen
(AZA7350)



Cushion for
Remote x 4
(AXG7080)

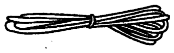


Microphone
(APM7001)

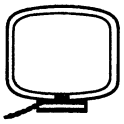


AC Power Cord
(ADG7052)

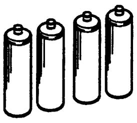
■ Accessories (VSX-47TX)



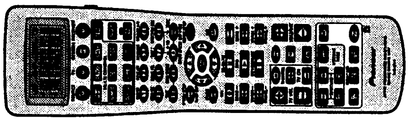
FM wire antenna
(ADH7010)



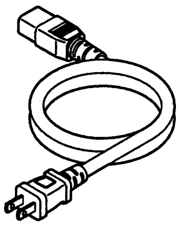
AM loop antenna
(ATB7009)



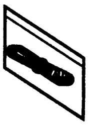
"AA" IEC LR6
batteries x 4



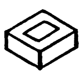
Remote control unit
(Remocon47 : AXD7299)
VSX-47TX



AC Power Cord
(ADG7052)



Remote Control
Cable
(ADE7083)

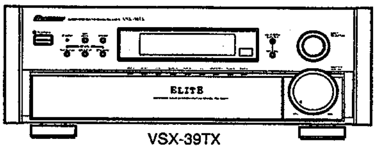


Remote Control
Stand
(AEB7243)

Printed by: Schaltungsdienst Lange, Berlin (GERMANY)

Pioneer

Service Manual


VSX-39TX

ORDER NO.
RRV2295

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-39TX
VSX-37TX
VSX-36TX
VSX-D909S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model				Power Requirement	Remarks
	VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S		
KU/CA	○	○	○	○	AC120V	

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PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE N V Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

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T-ZZR MAY 2000

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

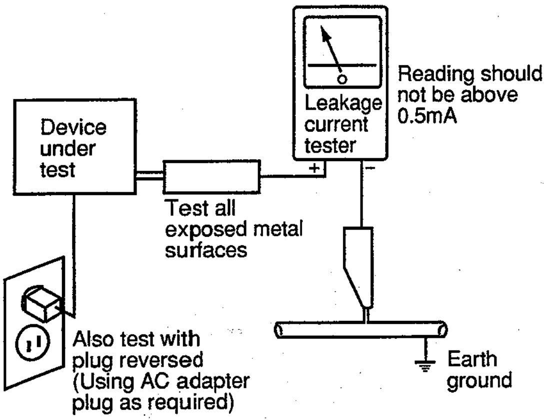
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Leakage current tester
Reading should not be above 0.5mA
Device under test
+
−
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

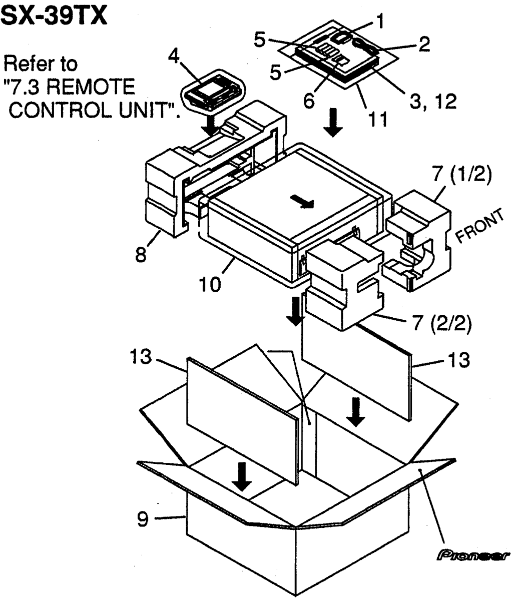
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

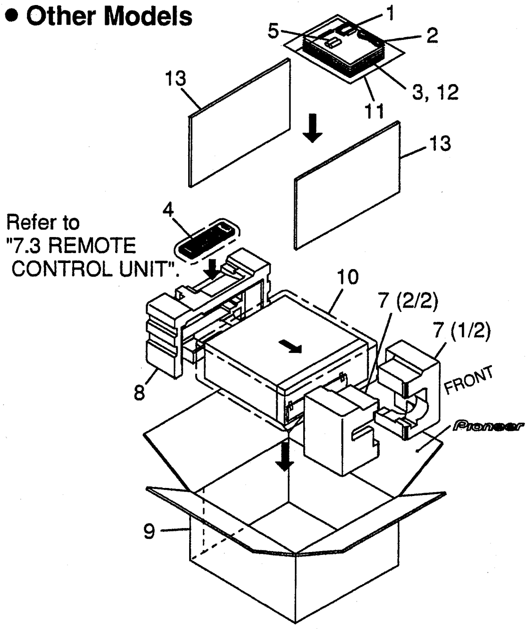
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING

- **VSX-39TX**



- **Other Models**



(1) PACKING PARTS LIST

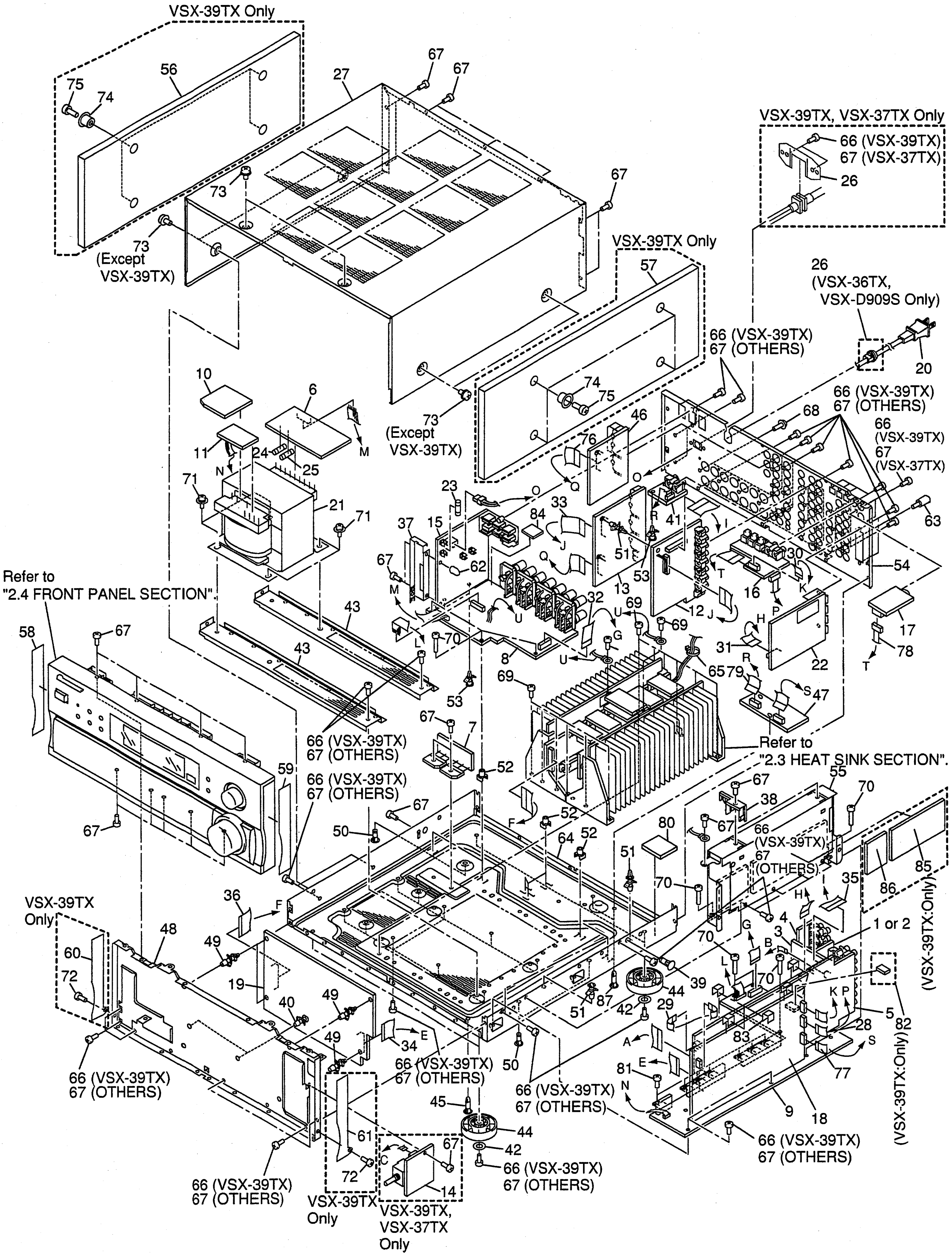
Mark	No.	Description	Part No.
	1	AM Loop Antenna	ATB7009
	2	FM Wire Antenna	ADH7007
	3	Operating Instructions (English)	See Contrast table (2)
	4	Remote Control Unit	See Contrast table (2)
NSP	5	Alkaline Dry Cell Battery (LR6, AA)	VEM1021
	6	Cushion for Remote (for Remote Control Unit)	See Contrast table (2)
	7	Front Pad	See Contrast table (2)
	8	Rear Pad	See Contrast table (2)
	9	Packing Case	See Contrast table (2)
	10	Packing Sheet	RHC1023
NSP	11	Polyethylene Bag (0.03×230×340)	Z21-038
NSP	12	Warranty Card	See Contrast table (2)
	13	Spacer	See Contrast table (2)

(2) CONTRAST TABLE

VSX-39TX, VSX-37TX, VSX-36TX and VSX-D909S are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remaks
			VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
	3	Operating Instructions (English)	ARB7230	ARB7231	ARB7231	ARB7232	
	4	Remote Control Unit (39)	AXD7254	Not used	Not used	Not used	
	4	Remote Control Unit (36)	Not used	AXD7257	AXD7257	Not used	
	4	Remote Control Unit (909S)	Not used	Not used	Not used	AXD7278	
	6	Cushion for Remote	AXG7080	Not used	Not used	Not used	
	7	Front Pad 29	AHA7255	Not used	Not used	Not used	
	7	Front Pad 26	Not used	AHA7253	AHA7253	AHA7253	
	8	Rear Pad 29	AHA7256	Not used	Not used	Not used	
	8	Rear Pad 26	Not used	AHA7254	AHA7254	AHA7254	
	9	Packing Case 39TX	AHD7882	Not used	Not used	Not used	
	9	Packing Case 37TX	Not used	AHD7881	Not used	Not used	
	9	Packing Case 36TX	Not used	Not used	AHD7880	Not used	
	9	Packing Case 909S	Not used	Not used	Not used	AHD7883	
NSP	12	Warranty Card EL	ARY1026	ARY1026	ARY1026	Not used	
NSP	12	Warranty Card PA	Not used	Not used	Not used	ARY7045	
	13	Spacer 29	AHB7033	Not used	Not used	Not used	
	13	Spacer 26	Not used	AHB7032	AHB7032	AHB7032	

2.2 EXTERIOR


VSX-39TX Only
56
75
74
27
67
67
73
73
(Except
VSX-39TX)
67
VSX-39TX, VSX-37TX Only
66 (VSX-39TX)
67 (VSX-37TX)
26
VSX-39TX Only
57
26
(VSX-36TX,
VSX-D909S Only)
20
66 (VSX-39TX)
67 (OTHERS)
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(Except
VSX-39TX)
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"2.3 HEAT SINK SECTION".
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66 (VSX-39TX)
67 (OTHERS)
66 (VSX-39TX)
67 (OTHERS)
VSX-39TX
Only
VSX-39TX,
VSX-37TX
Only
(VSX-39TX:Only)
(VSX-39TX:Only)

(1) EXTERIOR PARTS LIST

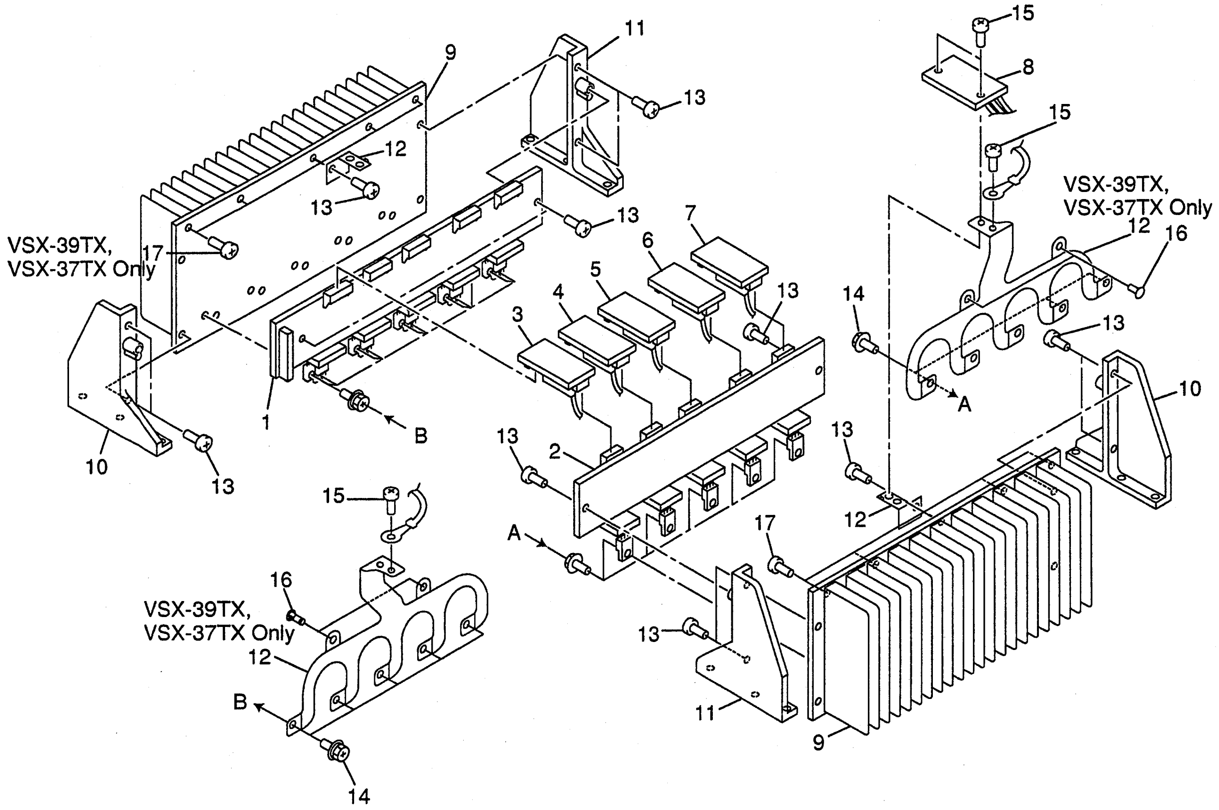
Mark	No.	Description	Part No.
NSP	1	EXTRA-5.1 Assy	See Contrast table (2)
NSP	2	EXTERNAL IN Assy	See Contrast table (2)
NSP	3	A-PINJACK Assy	See Contrast table (2)
	4	CONNECTION Assy	AWX7313
	5	MAIN CONTROL Assy	See Contrast table (2)
	6	TRANS 2-1 ASSY	See Contrast table (2)
	7	DIODE Assy	See Contrast table (2)
	8	SP/PS Assy	See Contrast table (2)
	9	REGULATOR Assy	AWX7310
	10	TRANS 1 Assy	AWX7316
	11	TRANS 2-2 Assy	AWX7366
	12	VIDEO Assy	See Contrast table (2)
	13	S-VIDEO Assy	See Contrast table (2)
	14	VOLUME Assy	See Contrast table (2)
	15	PRIMARY Assy	AWX7311
	16	RF/DIGITAL IN Assy	See Contrast table (2)
NSP	17	OPT OUT Assy	AWX7643
	18	DSP Assy	See Contrast table (2)
	19	V-AMP Assy	See Contrast table (2)
⚠	20	AC Power Cord	See Contrast table (2)
⚠	21	Power Transformer (T1)	ATS7252
	22	FM/AM TUNER Unit	AXX7046
⚠	23	Fuse (FU1 : 10A)	VEK1029
⚠	24	Fuse (FU4 : 2.5A)	REK1079
⚠	25	Fuse (FU5 : 2.5A)	REK1079
	26	AC Cord Spacer	See Contrast table (2)
	27	Bonnet Case	See Contrast table (2)
	28	2P Shield with Housing (J24)	ADX7250
	29	Lead Card 07P (J13)	ADD7161
	30	Lead Card 13P AD (J22)	ADD7250
	31	Lead Card 13P AD (J16)	ADD7169
	32	Lead Card 14P (J17)	ADD7165
	33	Lead Card 21P (J18)	ADD7164
	34	Lead Card 23P BD SLD (J12)	ADD7160
	35	Lead Card 26P (J15)	ADD7163
	36	Lead Card 28P (J23)	ADD7171
	37	Assy Holder	See Contrast table (2)
	38	Assy Holder B	AMR7267
	39	Card Spacer	AEC7133
	40	Card Spacer	DEC1772
	41	2CH I/O PJ Assy	AWX7634
	42	Cushion 55	PNM1316
NSP	43	Frame	See Contrast table (2)
	44	Insulator	PNW2766
	45	Locking Card Spacer	DEC1908
	46	COMPONENT Assy	AWX7635
	47	TRIM Assy	AWX7655
NSP	48	Panel Stay	See Contrast table (2)
	49	PC Support	VEC1549
NSP	50	PCB Holder	AEC7057
NSP	51	PCB Holder	PNW2100
NSP	52	PCB Mould	AMR1525
	53	PCB Spacer	AEC1372
	54	Rear Panel	See Contrast table (2)
	55	Shield Case	See Contrast table (2)
	56	Side Board 29 L	See Contrast table (2)
	57	Side Board 29 R	See Contrast table (2)
	58	Side Escutheon L	See Contrast table (2)
	59	Side Escutheon R	See Contrast table (2)
	60	Side Sash L 29	See Contrast table (2)
	61	Side Sash R 29	See Contrast table (2)
	62	Stud Cover	AEC7105
	63	Terminal Screw	AKE-031
NSP	64	Under Base 29	See Contrast table (2)
NSP	65	Binder (BK-1)	ZCA-BK1
	66	Screw	BBT30P080FCC
	67	Screw	BBZ30P080FZK
	68	Screw	ABA1193
	69	Screw	IBZ30P080FCC
	70	Screw	BBZ30P180FMC
	71	Screw	ABA1053
	72	Screw	BBT30P040FZK
	73	Screw	FBT40P080FZK
	74	Wood Collar	See Contrast table (2)
	75	Screw	See Contrast table (2)
	76	Lead Card 06P (J27)	ADD7248
	77	Lead Card 13P (J26)	ADD7251
	78	Lead Card 04P (J29)	ADD7247
	79	Lead Card 09P (J28)	ADD7249
	80	Cushion C	PNM1059
	81	Screw	IBZ30P100FCC
	82	Spacer	See Contrast table (2)
	83	Remo-con. Cushion	AEB7167
	84	Spacer	AEB7180
	85	S. Cushion	See Contrast table (2)
	86	Sheet	See Contrast table (2)
	87	Locking Card Spacer	VEC1596

(2) CONTRAST TABLE

VSX-39TX, VSX-37TX, VSX-36TX and VSX-D909S are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remaks
			VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
NSP	1	EXTRA-5.1 Assy	AWX7314	Not used	Not used	Not used	
NSP	2	EXTERNAL IN Assy	Not used	AWX7398	AWX7398	AWX7398	
NSP	3	A-PINJACK Assy	AWX7312	AWX7397	AWX7397	AWX7397	
	5	MAIN CONTROL Assy	AWX7705	AWX7706	AWX7707	AWX7708	
	6	TRANS 2-1 Assy	AWX7659	AWX7694	AWX7695	AWX7695	
	7	DIODE Assy	AWX7660	AWX7697	AWX7697	AWX7697	
	8	SP/PS Assy	AWX7658	AWX7688	AWX7689	AWX7689	
	12	VIDEO Assy	AWX7307	AWX7394	AWX7394	AWX7394	
	13	S-VIDEO Assy	AWX7678	AWX7679	AWX7679	AWX7679	
	14	VOLUME Assy	AWX7367	AWX7367	Not used	Not used	
	16	RF / DIGITAL IN Assy	AWX7637	AWX7638	AWX7642	AWX7642	
	18	DSP Assy	AWX7632	AWX7632	AWX7633	AWX7633	
	19	V-AMP Assy	AWX7729	AWX7309	AWX7309	AWX7409	
⚠	20	AC Power Cord	ADG7028	ADG7028	ADG7024	ADG7024	
	26	AC Cord Spacer	ANG1153	ANG1153	Not used	Not used	
	26	Cord Stopper	Not used	Not used	CM-22C	CM-22C	
	27	Bonnet Case 29	AZN7790	Not used	Not used	Not used	
	27	Bonnet Case 26	Not used	AZN7789	AZN7789	AZN7789	
	37	Assy Holder	ANG7322	ANG7321	ANG7321	ANG7321	
	41	2CH I/O PJ Assy	AWX7634	AWX7646	AWX7646	AWX7646	
NSP	43	Frame 29	ANG7243	Not used	Not used	Not used	
NSP	43	Frame 26	Not used	ANG7238	ANG7238	ANG7238	
	46	COMPONENT Assy	AWX7635	AWX7636	AWX7636	AWX7636	
NSP	48	Panel Stay 29	AND7032	Not used	Not used	Not used	
NSP	48	Panel Stay 26	Not used	AND7031	AND7031	AND7031	
	54	Rear Panel 39	ANC7945	Not used	Not used	Not used	
	54	Rear Panel 37	Not used	ANC7944	Not used	Not used	
	54	Rear Panel 36	Not used	Not used	ANC7943	Not used	
	54	Rear Panel D909S	Not used	Not used	Not used	ANC7946	
	55	Shield Case 39	ANK7079	Not used	Not used	Not used	
	55	Shield Case 36	Not used	ANK7078	ANK7054	ANK7054	
	56	Side Board 29 L	AMS7013	Not used	Not used	Not used	
	57	Side Board 29 R	AMS7014	Not used	Not used	Not used	
	58	Side Escutheon L 29	AAK7635	Not used	Not used	Not used	
	58	Side Escutheon L 26	Not used	AAK7633	AAK7633	AAK7633	
	59	Side Escutheon R 29	AAK7636	Not used	Not used	Not used	
	59	Side Escutheon R 26	Not used	AAK7634	AAK7634	AAK7634	
	60	Side Sash L 29	AAH7019	Not used	Not used	Not used	
	61	Side Sash R 29	AAH7020	Not used	Not used	Not used	
NSP	64	Under Base 29	ANA7091	Not used	Not used	Not used	
NSP	64	Under Base 26	Not used	ANA7089	ANA7089	ANA7089	
	74	Wood Collar	AEC1165	Not used	Not used	Not used	
	75	Screw	ABA1086	Not used	Not used	Not used	
	82	Spacer	AEB7179	Not used	Not used	Not used	
	85	S. Cushion	AEB7178	Not used	Not used	Not used	
	86	Sheet	AED7035	Not used	Not used	Not used	

2.3 HEAT SINK SECTION


11
9
13
15
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15
12
13
13
7
VSX-39TX,
VSX-37TX Only
12
16
VSX-39TX,
VSX-37TX Only
17
6
5
13
14
4
3
13
A
10
1
B
10
13
13
2
13
15
A
17
12
16
VSX-39TX,
VSX-37TX Only
12
13
B
11
9
14

(1) HEAT SINK SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	C-AMP N Assy	AWX7681
NSP	2	C-AMP-P Assy	AWX7680
NSP	3	OUTPUT-SL Assy	AWX7685
NSP	4	OUTPUT-FL Assy	AWX7682
	5	OUTPUT-C Assy	AWX7684
NSP	6	OUTPUT-FR Assy	AWX7683
NSP	7	OUTPUT-SR Assy	AWX7686
	8	VL-TERMINAL Assy	AWX7657
NSP	9	Heat Sink	See Contrast table (2)
	10	Heat Sink Holder A	AMR7255

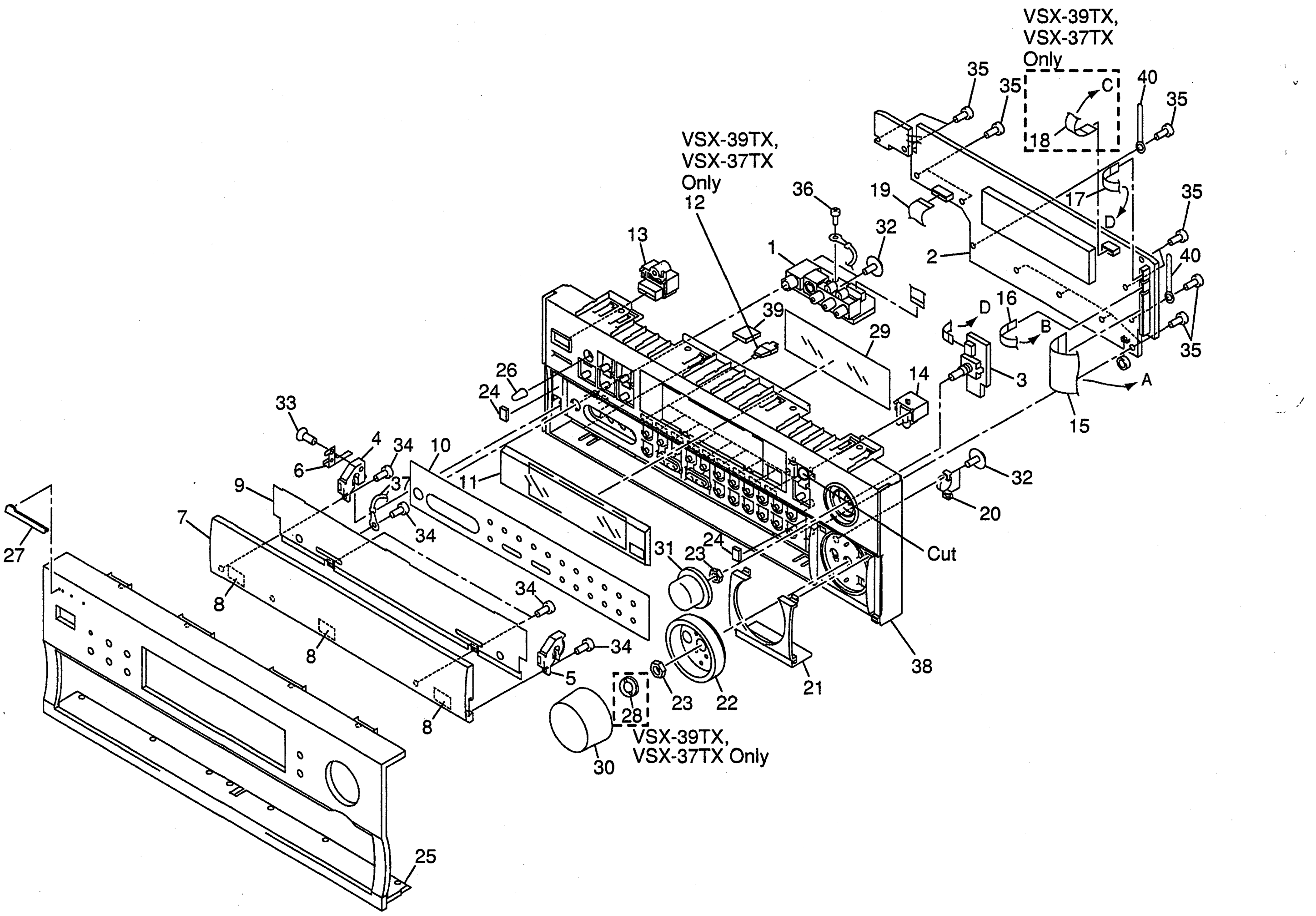
Mark	No.	Description	Part No.
	11	Heat Sink Holder B	AMR7256
NSP	12	Power Supply Plate	See Contrast table (2)
	13	Screw	See Contrast table (2)
	14	Screw	ABA1082
	15	Screw	IBZ30P080FCC
	16	Card Spacer	See Contrast table (2)
	17	Screw	See Contrast table (2)

(2) CONTRAST TABLE

VSX-39TX, VSX-37TX, VSX-36TX and VSX-D909S are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remaks
			VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
NSP	9	Heat Sink D10	ANH7103	ANH7103	Not used	Not used	
NSP	9	Heat Sink 26	Not used	Not used	ANH7102	ANH7102	
NSP	12	Power Supply Plate	ANG7280	ANG7280	ANG7240	ANG7240	
	13	Screw	IBZ30P080FCC	IBZ30P080FCC	BBZ30P080FZK	BBZ30P080FZK	
NSP	16	Card Spacer	DNK2769	DNK2769	Not used	Not used	
	17	Screw	BBZ40P080FCC	BBZ40P080FCC	Not used	Not used	

2.4 FRONT PANEL SECTION


VSX-39TX,
VSX-37TX
Only
VSX-39TX,
VSX-37TX
Only
12
VSX-39TX,
VSX-37TX Only
1
2
3
4
5
6
7
8
9
10
11
13
14
15
16
17
18
19
20
21
22
23
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29
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33
34
35
36
37
38
39
40
A
B
C
D
Cut

(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	H. PHONE/F. VIDEO Assy	AWX7342
	2	DISPLAY Assy	See Contrast table (2)
NSP	3	ROTARY ENCODER Assy	See Contrast table (2)
	4	Door Hinge 26 L	AMR7252
	5	Door Hinge 26 R	AMR7253
NSP	6	Magnet Angle	ANG7241
	7	Door Panel	See Contrast table (2)
NSP	8	Spacer	VEC-244
NSP	9	Door Plate 26	AAH7024
	10	Door Sheet	See Contrast table (2)
	11	Display Panel 26	AAK7625
	12	Function Lens 27	See Contrast table (2)
	13	Power Button (STANDBY/ON)	AAD7440
	14	MR Button (MULTIROOM)	AAD7514
	15	Lead Card 32P (J11)	ADD7159
	16	Lead Card 05P (J14)	ADD7254
	17	Lead Card 06P (J20)	ADD7167
	18	Lead Card 08P (J19)	See Contrast table (2)
	19	Lead Card 12P (J21)	ADD7166
	20	Damper Assy (60)	AXA7078

Mark	No.	Description	Part No.
	21	Sub Panel	See Contrast table (2)
	22	Volume Ring	See Contrast table (2)
	23	Nut	NK90FUC
	24	Door Cusion B	AEB7152
	25	Front Panel	See Contrast table (2)
	26	LED Lens	PNW2019
	27	Name Plate B	PAN1376
	28	Ring Spacer D5	See Contrast table (2)
	29	FL Sheet 26	AAK7627
	30	Volume Knob (MASTER VOLUME)	See Contrast table (2)
	31	Rotary Knob (INPUT SELECTOR)	See Contrast table (2)
	32	Screw	ABA7053
	33	Screw	PBA1096
	34	Screw	BPZ30P060FMC
	35	Screw	BPZ30P080FMC
	36	Screw	BBZ30P080FZK
NSP	37	Cord with Plug	ADH7020
	38	Panel Base	See Contrast table (2)
	39	Magnet	AMF7002
	40	Cord Clamper	RNH-184

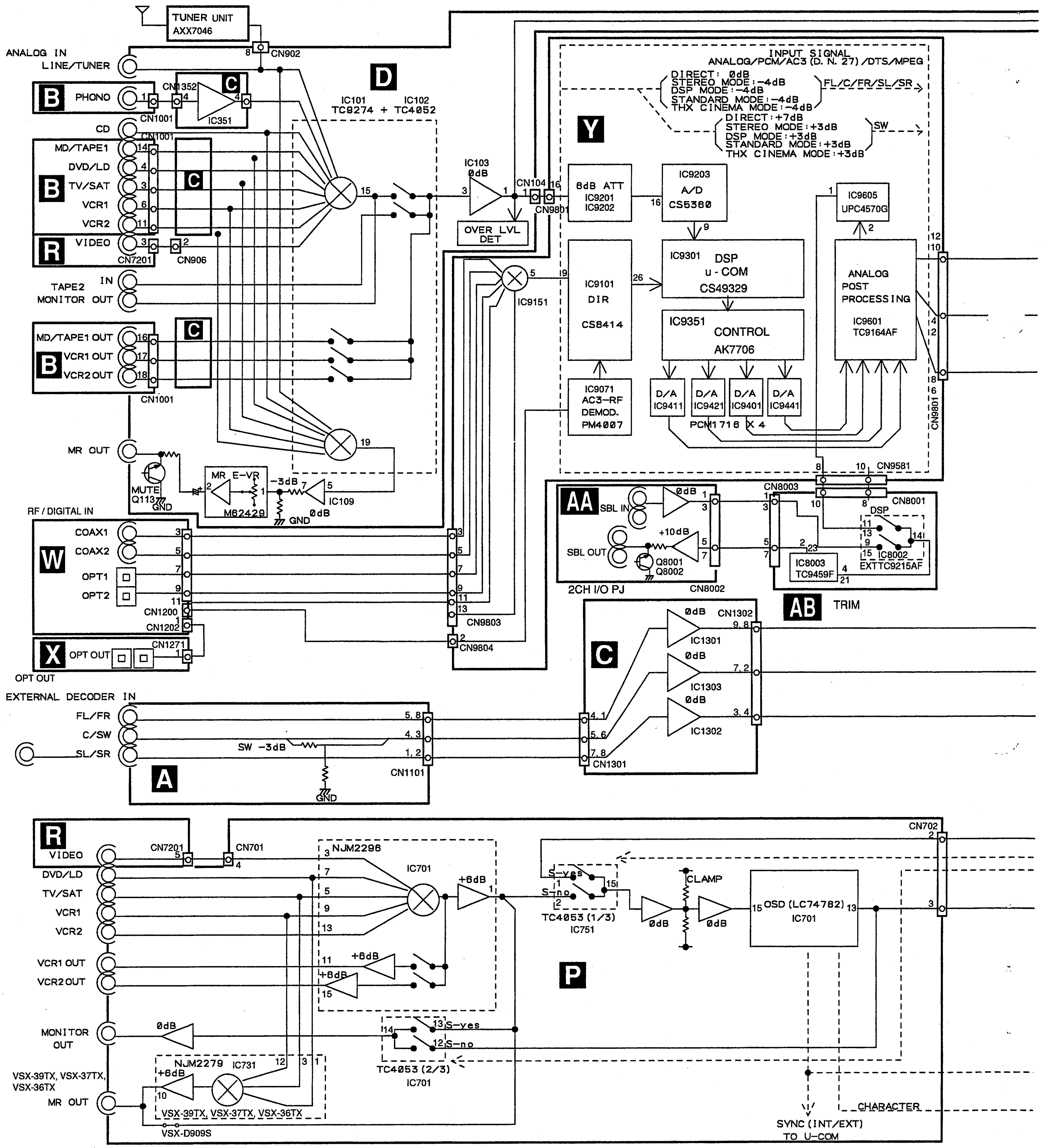
(2) CONTRAST TABLE

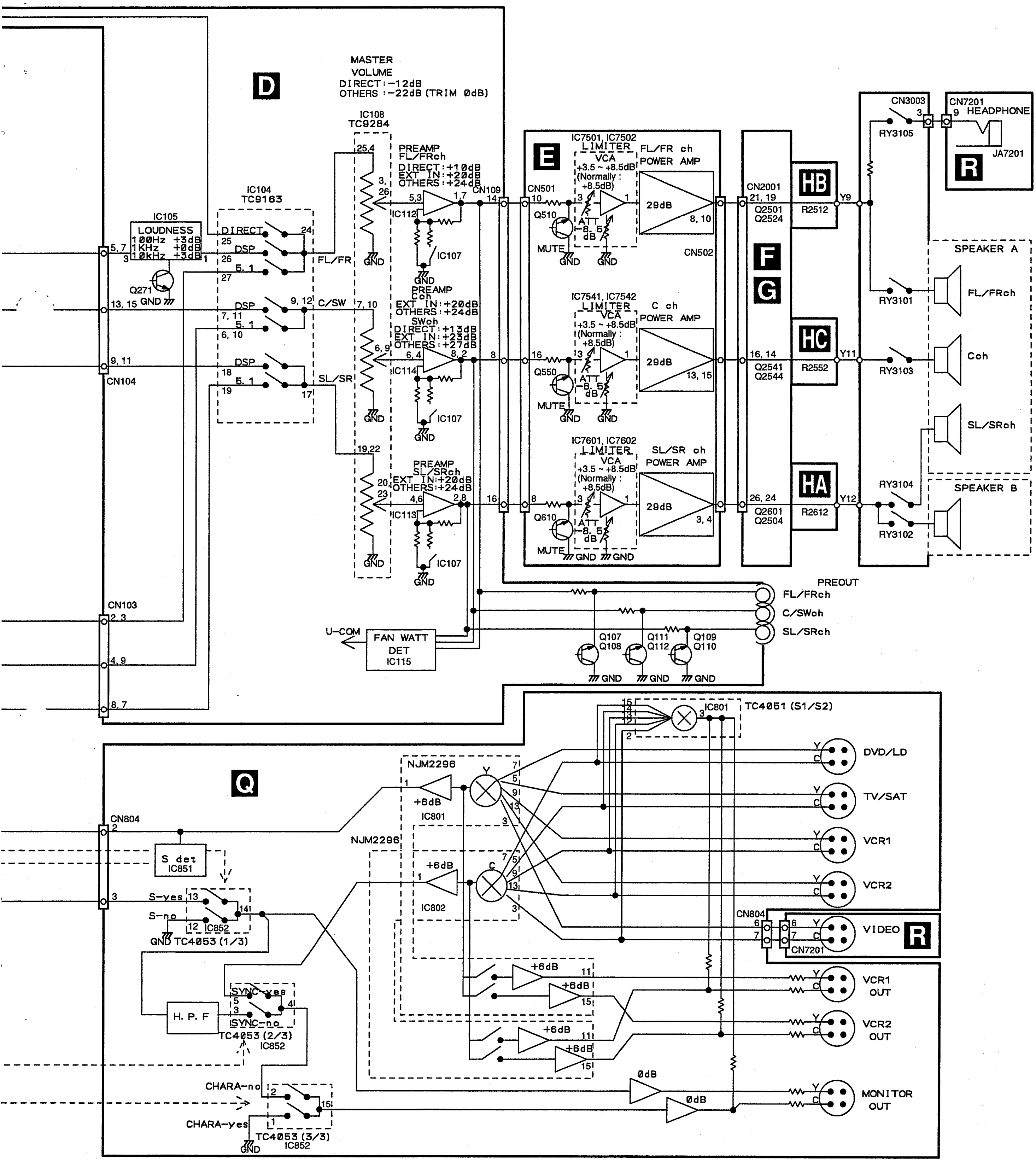
VSX-39TX, VSX-37TX, VSX-36TX and VSX-D909S are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.				Remaks
			VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
	1	H.PHONE/F.VIDEO Assy	AWX7342	AWX7342	AWX7528	AWX7528	
	2	DISPLAY Assy	AWX7698	AWX7698	AWX7699	AWX7700	
NSP	3	ROTARY ENCODER Assy	AWX7328	AWX7328	AWX7726	AWX7726	
	7	Door Panel 39	AMB7722	AMB7718	AMB7718	Not used	
	7	Door Panel 98SD	Not used	Not used	Not used	AMB7624	
	10	Door Sheet 39	AAK7789	AAK7789	AAK7789	Not used	
	10	Door Sheet D909S	Not used	Not used	Not used	AAK7790	
	12	Function Lens 27	AAK7628	AAK7628	Not used	Not used	
	18	Lead Card 08P (J19)	ADD7168	ADD7168	Not used	Not used	
	21	Sub Panel 29	AMB7622	AMB7622	Not used	Not used	
	21	Sub Panel 26	Not used	Not used	AMB7575	Not used	
	21	Sub Panel 908	Not used	Not used	Not used	AMB7617	
	22	Volume Ring D10	AAH7016	Not used	Not used	Not used	
	22	Volume Ring 26	Not used	AAK7623	AAK7623	AAK7623	
	25	Front Panel 39	AMB7718	Not used	Not used	Not used	
	25	Front Panel 37	Not used	AMB7717	Not used	Not used	
	25	Front Panel 36	Not used	Not used	AMB7716	Not used	
	25	Front Panel D909S	Not used	Not used	Not used	AMB771	
	28	Ring Spacer D5	AWL7038	AWL7038	Not used	Not used	
	30	Volume Knob 27	AAB7194	AAB7194	Not used	Not used	
	30	Volume Knob 26	Not used	Not used	AAB7193	AAB7193	
	31	Rotary Knob 29	AAB7221	AAB7221	Not used	Not used	
	31	Rotary Knob 26	Not used	Not used	AAB7196	AAB7196	
	38	Panel Base 27	AMB7570	AMB7570	Not used	Not used	
	38	Panel Base 26	Not used	Not used	AMB7569	AMB7569	

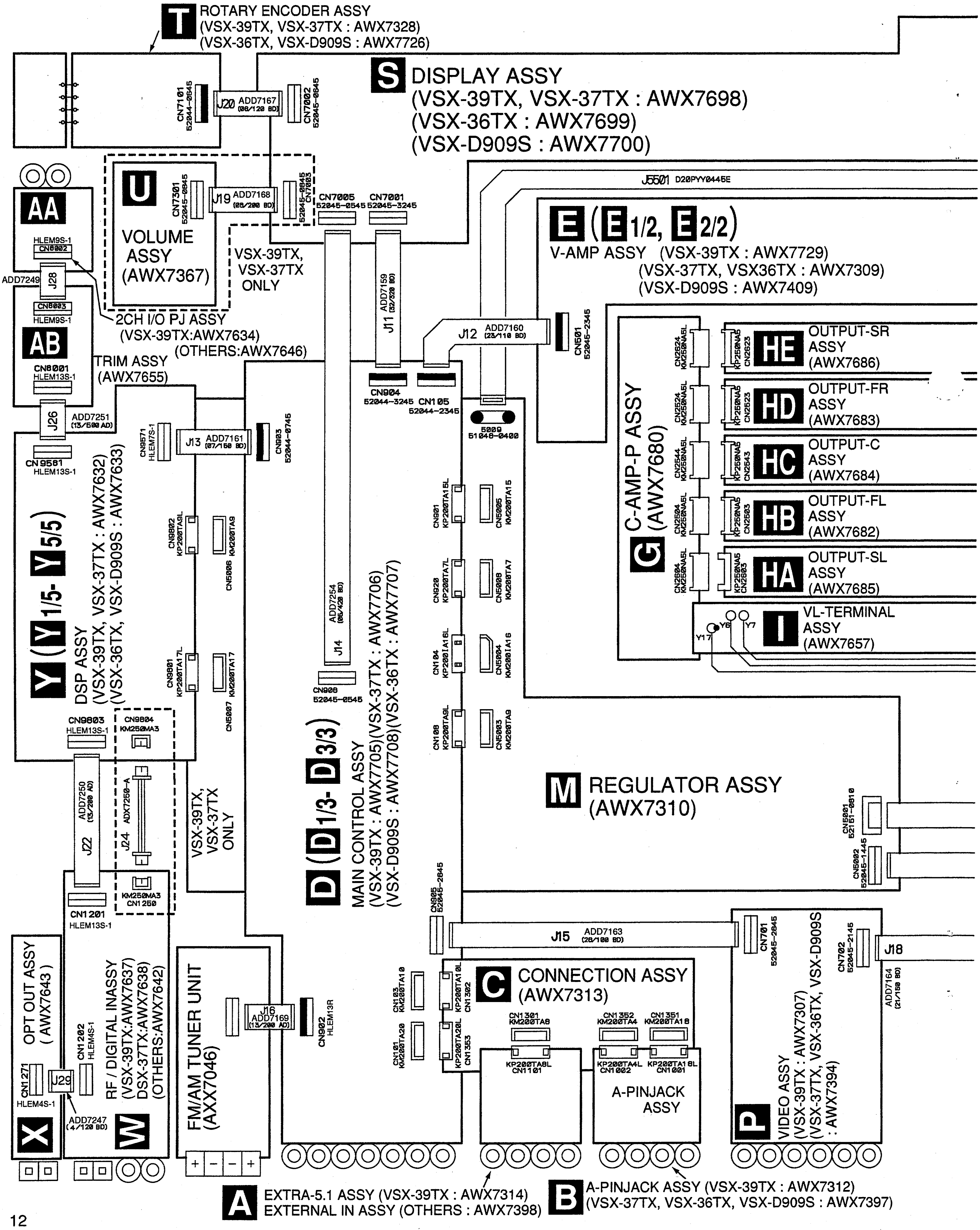
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM


TUNER UNIT
AXX7046
CN902
ANALOG IN
LINE/TUNER
B
PHONO
CN1352
C
IC351
CN1001
D
IC101 IC102
TC9274 + TC4052
CD
MD/TAPE1
DVD/LD
TV/SAT
VCR1
VCR2
R
VIDEO
CN7201
CN906
TAPE2 IN
MONITOR OUT
IC103
0dB
OVER LVL DET
CN104
CN9801
IC9151
MD/TAPE1 OUT
VCR1 OUT
VCR2 OUT
INPUT SIGNAL
ANALOG/PCM/AC3 (D. N. 27) /DTS/MPEG
DIRECT: 0dB
STEREO MODE: -4dB
DSP MODE: -4dB
STANDARD MODE: -4dB
THX CINEMA MODE: -4dB
FL/C/FR/SL/SR
DIRECT: +7dB
STEREO MODE: +3dB
DSP MODE: +3dB
STANDARD MODE: +3dB
THX CINEMA MODE: +3dB
SW
Y
6dB ATT
IC9201
IC9202
IC9203
A/D
CS5360
IC9605
UPC4570G
IC9101
DIR
CS8414
IC9301 DSP
u-COM
CS49329
IC9351
CONTROL
AK7706
ANALOG
POST
PROCESSING
IC9601
TC9164AF
IC9071
AC3-RF
DEMOD.
PM4007
D/A IC9411
D/A IC9421
D/A IC9401
D/A IC9441
PCM1716 X 4
CN9581
MR OUT
MUTE
Q113
GND
MR E-VR
M62429
-3dB
IC109
0dB
AA
SBL IN
0dB
+10dB
SBL OUT
Q8001
Q8002
2CH I/O PJ
CN8002
CN8003
CN8001
DSP
IC8003
TC9459F
IC8002
EXTTC9215AF
AB
TRIM
RF / DIGITAL IN
W
COAX1
COAX2
OPT1
OPT2
CN1200
CN1202
CN9803
CN9804
X
OPT OUT
CN1271
OPT OUT
0dB
CN1302
IC1301
IC1303
IC1302
EXTERNAL DECODER IN
FL/FR
C/SW
SL/SR
SW -3dB
CN1101
A
GND
CN1301
R
VIDEO
CN7201
CN701
NJM2296
IC701
+6dB
DVD/LD
TV/SAT
VCR1
VCR2
VCR1 OUT
VCR2 OUT
S-yes
S-no
TC4053 (1/3)
IC751
CLAMP
0dB
0dB
OSD (LC74782)
IC701
CN702
P
MONITOR OUT
0dB
S-yes
S-no
TC4053 (2/3)
IC701
NJM2279 IC731
+6dB
VSX-39TX, VSX-37TX, VSX-36TX
MR OUT
VSX-39TX, VSX-37TX, VSX-36TX
VSX-D909S
SYNC (INT/EXT)
TO U-COM
CHARACTER

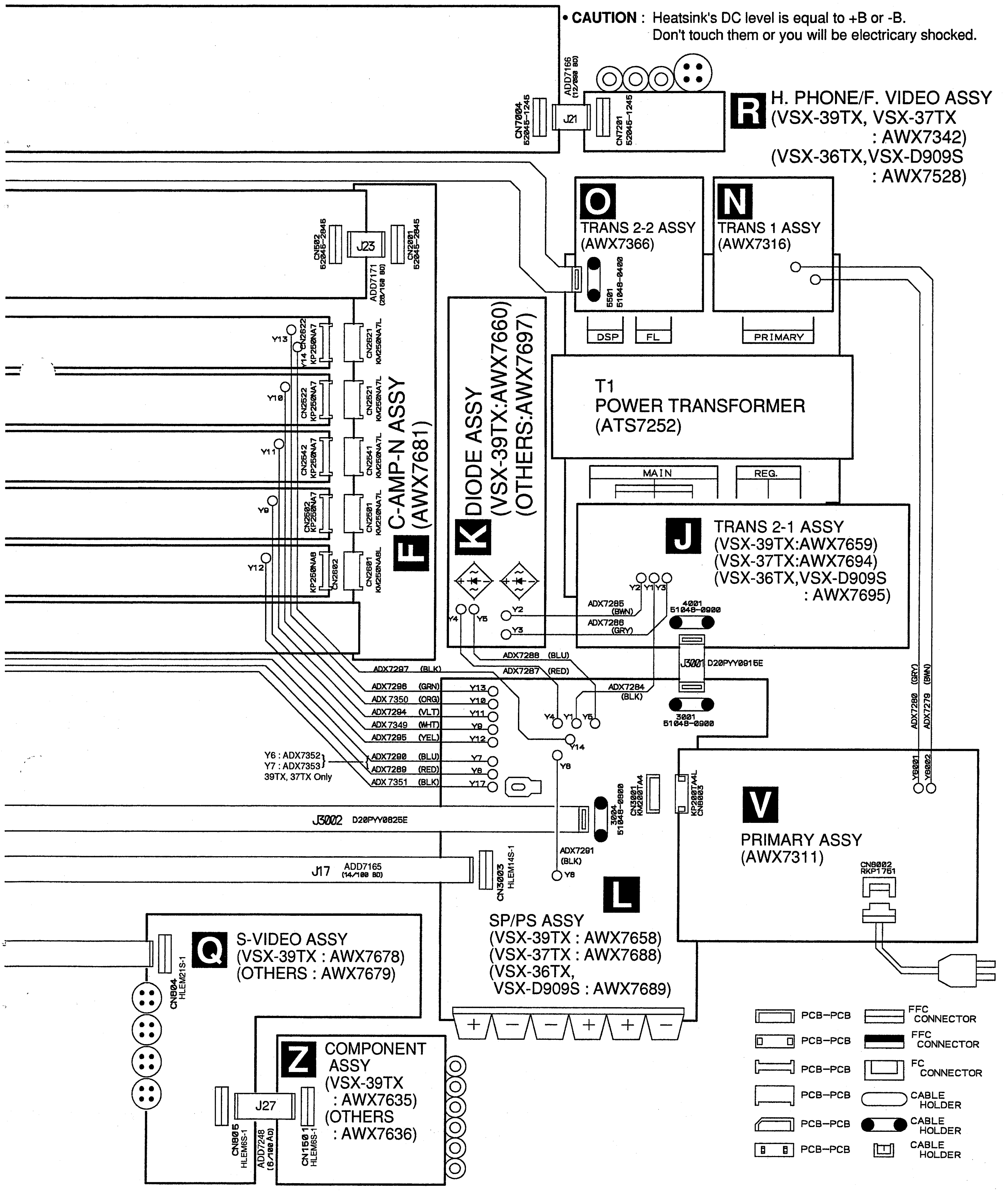

D
MASTER VOLUME
DIRECT : −12dB
OTHERS : −22dB (TRIM 0dB)
IC108 TC9284
PREAMP FL/FRch
DIRECT : +10dB
EXT IN : +20dB
OTHERS : +24dB
IC104 TC9163
IC105 LOUDNESS
100Hz +3dB
1KHz +0dB
10kHz +3dB
Q271
GND
DIRECT
DSP
5. 1
FL/FR
C/SW
SL/SR
CN104
IC112
IC107
GND
PREAMP Cch
EXT IN : +20dB
OTHERS : +24dB
SWch
DIRECT : +13dB
EXT IN : +23dB
OTHERS : +27dB
IC114
PREAMP SL/SRch
EXT IN : +20dB
OTHERS : +24dB
IC113
CN109
E
IC7501, IC7502
LIMITER
VCA
+3.5 ~ +8.5dB
(Normally : +8.5dB)
ATT −8.5dB
FL/FR ch POWER AMP
29dB
CN501
Q510
MUTE
CN502
IC7541, IC7542
C ch POWER AMP
Q550
IC7601, IC7602
SL/SR ch POWER AMP
Q610
CN2001
Q2501 Q2524
Q2541 Q2544
Q2601 Q2504
F
G
HB
HC
HA
R2512
R2552
R2612
Y9
Y11
Y12
CN3003
RY3105
CN7201
HEADPHONE
JA7201
R
SPEAKER A
RY3101
FL/FRch
RY3103
Cch
SL/SRch
RY3104
SPEAKER B
RY3102
PREOUT
FL/FRch
C/SWch
SL/SRch
Q107 Q108
Q111 Q112
Q109 Q110
U-COM
FAN WATT DET IC115
CN103
Q
CN804
S det IC851
S-yes
S-no
IC852
GND TC4053 (1/3)
H. P. F
SYNC-yes
SYNC-no
TC4053 (2/3) IC852
CHARA-no
CHARA-yes
TC4053 (3/3) IC852
NJM2296
+6dB
IC801
IC802
Y
C
IC801 TC4051 (S1/S2)
DVD/LD
TV/SAT
VCR1
VCR2
VIDEO
CN7201
VCR1 OUT
VCR2 OUT
0dB
MONITOR OUT

3.2 OVERALL WIRING CONNECTION DIAGRAM

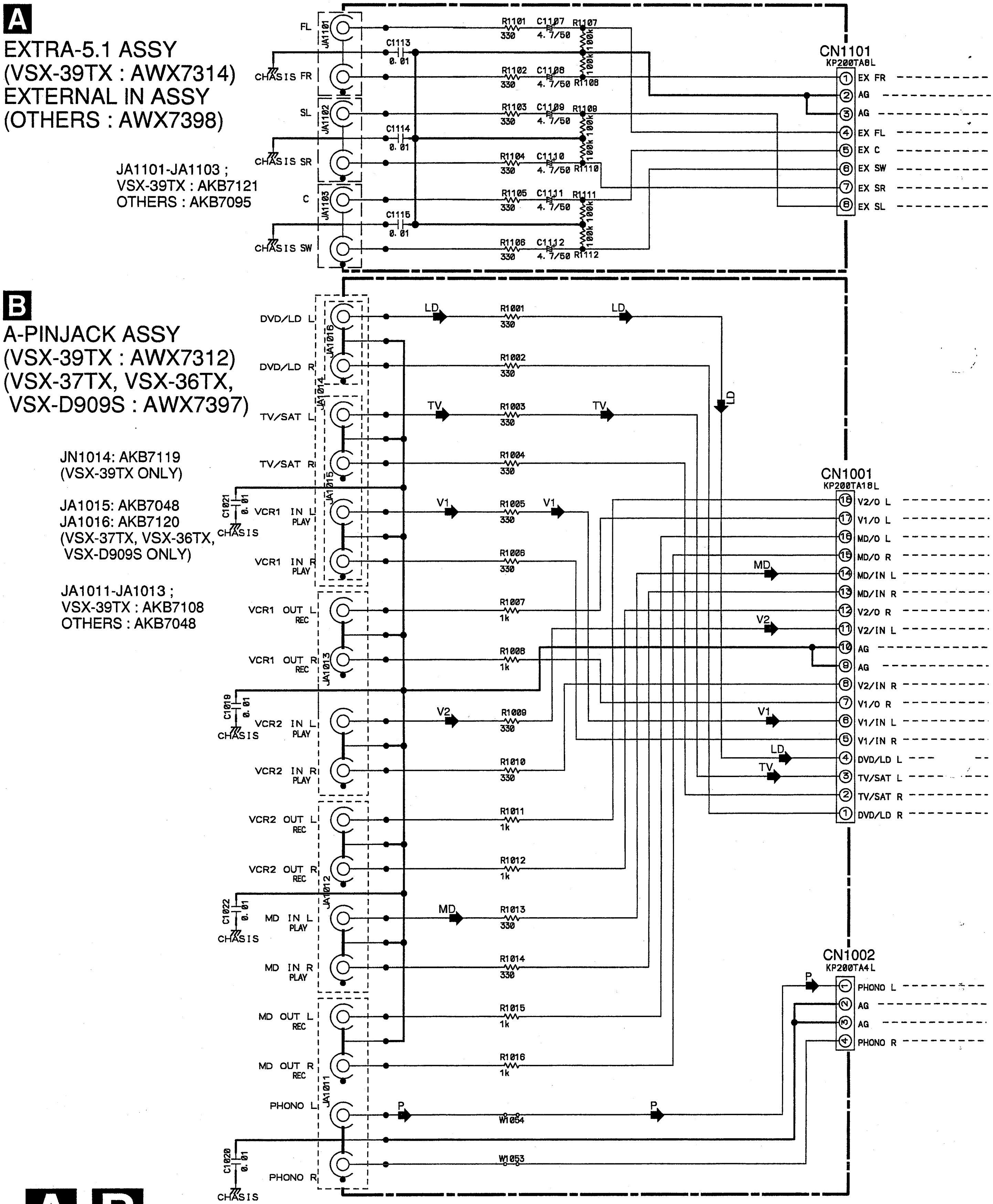

A
B
C
D
T ROTARY ENCODER ASSY
(VSX-39TX, VSX-37TX : AWX7328)
(VSX-36TX, VSX-D909S : AWX7726)
CN7101 52044-0645
J20 ADD7167 (06/120 BD)
CN7002 52045-0645
S DISPLAY ASSY
(VSX-39TX, VSX-37TX : AWX7698)
(VSX-36TX : AWX7699)
(VSX-D909S : AWX7700)
U
VOLUME ASSY
(AWX7367)
CN7301 52045-0645
J19 ADD7168 (06/200 BD)
52045-0645 CN7003
CN7005 52045-0545
CN7001 52045-3245
VSX-39TX, VSX-37TX ONLY
J5501 D20PYY0445E
E (E 1/2, E 2/2)
V-AMP ASSY (VSX-39TX : AWX7729)
(VSX-37TX, VSX36TX : AWX7309)
(VSX-D909S : AWX7409)
AA
HLEM9S-1 CN8002
ADD7249 J28
CN8003 HLEM9S-1
2CH I/O PJ ASSY
(VSX-39TX:AWX7634)
(OTHERS:AWX7646)
AB
CN8001 HLEM13S-1
TRIM ASSY
(AWX7655)
J26 ADD7251 (13/500 AD)
CN9501 HLEM13S-1
J11 ADD7159 (32/520 BD)
J12 ADD7160 (23/110 BD)
CN501 52045-2345
CN904 52044-3245
CN105 52044-2345
5009 51048-0400
CN9571 HLEM7S-1
J13 ADD7161 (07/150 BD)
CN903 52044-0745
CN9802 KP200TA9L
CN5006 KM200TA9
CN9801 KP200TA17L
CN5007 KM200TA17
Y (Y 1/5- Y 5/5)
DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)
J14 ADD7254 (05/420 BD)
CN908 52045-0545
D (D 1/3- D 3/3)
MAIN CONTROL ASSY
(VSX-39TX : AWX7705)(VSX-37TX : AWX7706)
(VSX-D909S : AWX7708)(VSX-36TX : AWX7707)
CN901 KP200TA15L
CN5005 KM200TA15
CN920 KP200TA7L
CN5008 KM200TA7
CN104 KP200IA16L
CN5004 KM200IA16
CN108 KP200TA9L
CN5003 KM200TA9
G C-AMP-P ASSY (AWX7680)
CN2624 KM250NA5L
CN2623 KP250NA5
HE OUTPUT-SR ASSY (AWX7686)
CN2524 KM250NA5L
CN2523 KP250NA5
HD OUTPUT-FR ASSY (AWX7683)
CN2544 KM250NA5L
CN2543 KP250NA5
HC OUTPUT-C ASSY (AWX7684)
CN2504 KM250NA5L
CN2503 KP250NA5
HB OUTPUT-FL ASSY (AWX7682)
CN2604 KM250NA5L
CN2603 KP250NA5
HA OUTPUT-SL ASSY (AWX7685)
Y17 Y6 Y7
I VL-TERMINAL ASSY (AWX7657)
CN9803 HLEM13S-1
CN9804 KM250MA3
J22 ADD7250 (13/200 AD)
J24 ADX7250-A
KM250MA3 CN1250
VSX-39TX, VSX-37TX ONLY
M REGULATOR ASSY
(AWX7310)
CN5001 52151-0610
CN5002 52045-1445
CN1201 HLEM13S-1
CN905 52045-2645
J15 ADD7163 (26/100 BD)
CN701 52045-2645
CN702 52045-2145
J18
ADD7164 (21/150 BD)
OPT OUT ASSY (AWX7643)
CN1271 HLEM4S-1
J29
ADD7247 (4/120 BD)
CN1202 HLEM4S-1
RF / DIGITAL INASSY
(VSX-39TX:AWX7637)
DSX-37TX:AWX7638)
(OTHERS:AWX7642)
X
W
FM/AM TUNER UNIT
(AXX7046)
J16 ADD7169 (13/200 AD)
CN902 HLEM13R
+ - - +
CN103 KM200TA10
CN1302 KP200TA10L
CN101 KM200TA20
CN1353 KP200TA20L
C CONNECTION ASSY
(AWX7313)
CN1301 KM200TA8
CN1352 KM200TA4
CN1351 KM200TA18
KP200TA8L CN1101
KP200TA4L CN1002
KP200TA18L CN1001
A-PINJACK ASSY
P VIDEO ASSY
(VSX-39TX : AWX7307)
(VSX-37TX, VSX-36TX, VSX-D909S : AWX7394)
A EXTRA-5.1 ASSY (VSX-39TX : AWX7314)
EXTERNAL IN ASSY (OTHERS : AWX7398)
B A-PINJACK ASSY (VSX-39TX : AWX7312)
(VSX-37TX, VSX-36TX, VSX-D909S : AWX7397)

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

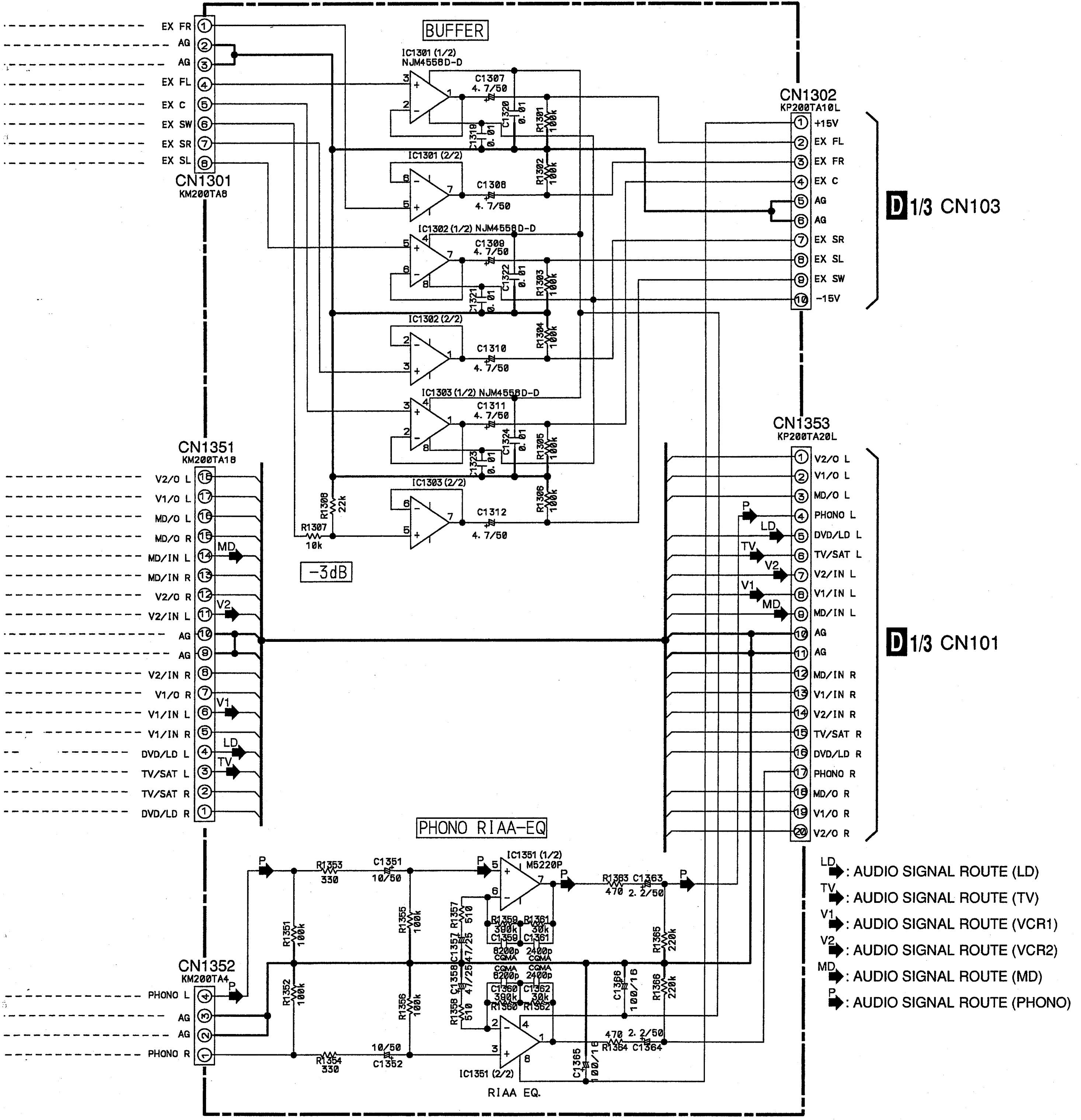
• **CAUTION** : Heatsink's DC level is equal to +B or -B.
Don't touch them or you will be electricary shocked.


A
B
C
D
CN7004 52045-1245
J21
ADD7166 (12/080 BD)
CN7201 52045-1245
R H. PHONE/F. VIDEO ASSY
(VSX-39TX, VSX-37TX : AWX7342)
(VSX-36TX,VSX-D909S : AWX7528)
O TRANS 2-2 ASSY (AWX7366)
5501 51048-0400
N TRANS 1 ASSY (AWX7316)
DSP
FL
PRIMARY
T1 POWER TRANSFORMER (ATS7252)
MAIN
REG.
J TRANS 2-1 ASSY
(VSX-39TX:AWX7659)
(VSX-37TX:AWX7694)
(VSX-36TX,VSX-D909S : AWX7695)
Y2 Y1 Y3
ADX7285 (BWN)
ADX7286 (GRY)
4001 51048-0900
J3001 D20PYY0916E
3001 51048-0900
CN502 52045-2845
J23
ADD7171 (28/160 BD)
CN2001 52045-2845
Y13
Y14 CN2622 KP250NA7
CN2621 KM250NA7L
Y10
CN2522 KP250NA7
CN2521 KM250NA7L
Y11
CN2542 KP250NA7
CN2541 KM250NA7L
Y9
CN2502 KP250NA7
CN2501 KM250NA7L
Y12
KP250NA8 CN2602
CN2601 KM250NA8L
F C-AMP-N ASSY (AWX7681)
K DIODE ASSY (VSX-39TX:AWX7660) (OTHERS:AWX7697)
Y4 Y5 Y2 Y3
ADX7288 (BLU)
ADX7287 (RED)
ADX7284 (BLK)
ADX7297 (BLK)
ADX7296 (GRN) Y13
ADX7350 (ORG) Y10
ADX7294 (VLT) Y11
ADX7349 (WHT) Y9
ADX7295 (YEL) Y12
Y6 : ADX7352
Y7 : ADX7353
39TX, 37TX Only
ADX7290 (BLU) Y7
ADX7289 (RED) Y6
ADX7351 (BLK) Y17
Y4 Y1 Y5
Y14
Y8
J3002 D20PYY0825E
3004 51048-0600
CN3001 KM200TA4
KP200TA4L CN8003
ADX7291 (BLK)
Y8
J17 ADD7165 (14/100 BD)
CN3003 HLEM14S-1
L SP/PS ASSY
(VSX-39TX : AWX7658)
(VSX-37TX : AWX7688)
(VSX-36TX, VSX-D909S : AWX7689)
+ − − + + −
ADX7280 (GRY)
ADX7279 (BWN)
Y6001 Y6002
V PRIMARY ASSY (AWX7311)
CN8002 RKP1751
Q S-VIDEO ASSY (VSX-39TX : AWX7678) (OTHERS : AWX7679)
CN804 HLEM21S-1
Z COMPONENT ASSY (VSX-39TX : AWX7635) (OTHERS : AWX7636)
CN805 HLEM6S-1
J27
ADD7248 (6/100 AD)
CN1501 HLEM6S-1
PCB−PCB
PCB−PCB
PCB−PCB
PCB−PCB
PCB−PCB
PCB−PCB
FFC CONNECTOR
FFC CONNECTOR
FC CONNECTOR
CABLE HOLDER
CABLE HOLDER
CABLE HOLDER

3.3 EXTRA-5.1 (EXTERNAL IN), A-PINJACK and CONNECTION ASSYS


A
EXTRA-5.1 ASSY
(VSX-39TX : AWX7314)
EXTERNAL IN ASSY
(OTHERS : AWX7398)
JA1101-JA1103 ;
VSX-39TX : AKB7121
OTHERS : AKB7095
FL
CHASIS FR
SL
CHASIS SR
C
CHASIS SW
JA1101
JA1102
JA1103
C1113 0.01
C1114 0.01
C1115 0.01
R1101 330
R1102 330
R1103 330
R1104 330
R1105 330
R1106 330
C1107 4.7/50
C1108 4.7/50
C1109 4.7/50
C1110 4.7/50
C1111 4.7/50
C1112 4.7/50
R1107 100k
R1108 100k
R1109 100k
R1110 100k
R1111 100k
R1112 100k
CN1101
KP200TA8L
1 EX FR
2 AG
3 AG
4 EX FL
5 EX C
6 EX SW
7 EX SR
8 EX SL
B
A-PINJACK ASSY
(VSX-39TX : AWX7312)
(VSX-37TX, VSX-36TX,
VSX-D909S : AWX7397)
JN1014: AKB7119
(VSX-39TX ONLY)
JA1015: AKB7048
JA1016: AKB7120
(VSX-37TX, VSX-36TX,
VSX-D909S ONLY)
JA1011-JA1013 ;
VSX-39TX : AKB7108
OTHERS : AKB7048
DVD/LD L
DVD/LD R
TV/SAT L
TV/SAT R
VCR1 IN L PLAY
VCR1 IN R PLAY
VCR1 OUT L REC
VCR1 OUT R REC
VCR2 IN L PLAY
VCR2 IN R PLAY
VCR2 OUT L REC
VCR2 OUT R REC
MD IN L PLAY
MD IN R PLAY
MD OUT L REC
MD OUT R REC
PHONO L
PHONO R
JA1016
JA1014
JA1015
JA1013
JA1012
JA1011
C1021 0.01
C1019 0.01
C1022 0.01
C1020 0.01
CHASIS
LD
TV
V1
V2
MD
P
R1001 330
R1002 330
R1003 330
R1004 330
R1005 330
R1006 330
R1007 1k
R1008 1k
R1009 330
R1010 330
R1011 1k
R1012 1k
R1013 330
R1014 330
R1015 1k
R1016 1k
W1054
W1053
CN1001
KP200TA18L
18 V2/O L
17 V1/O L
16 MD/O L
15 MD/O R
14 MD/IN L
13 MD/IN R
12 V2/O R
11 V2/IN L
10 AG
9 AG
8 V2/IN R
7 V1/O R
6 V1/IN L
5 V1/IN R
4 DVD/LD L
3 TV/SAT L
2 TV/SAT R
1 DVD/LD R
CN1002
KP200TA4L
1 PHONO L
2 AG
3 AG
4 PHONO R

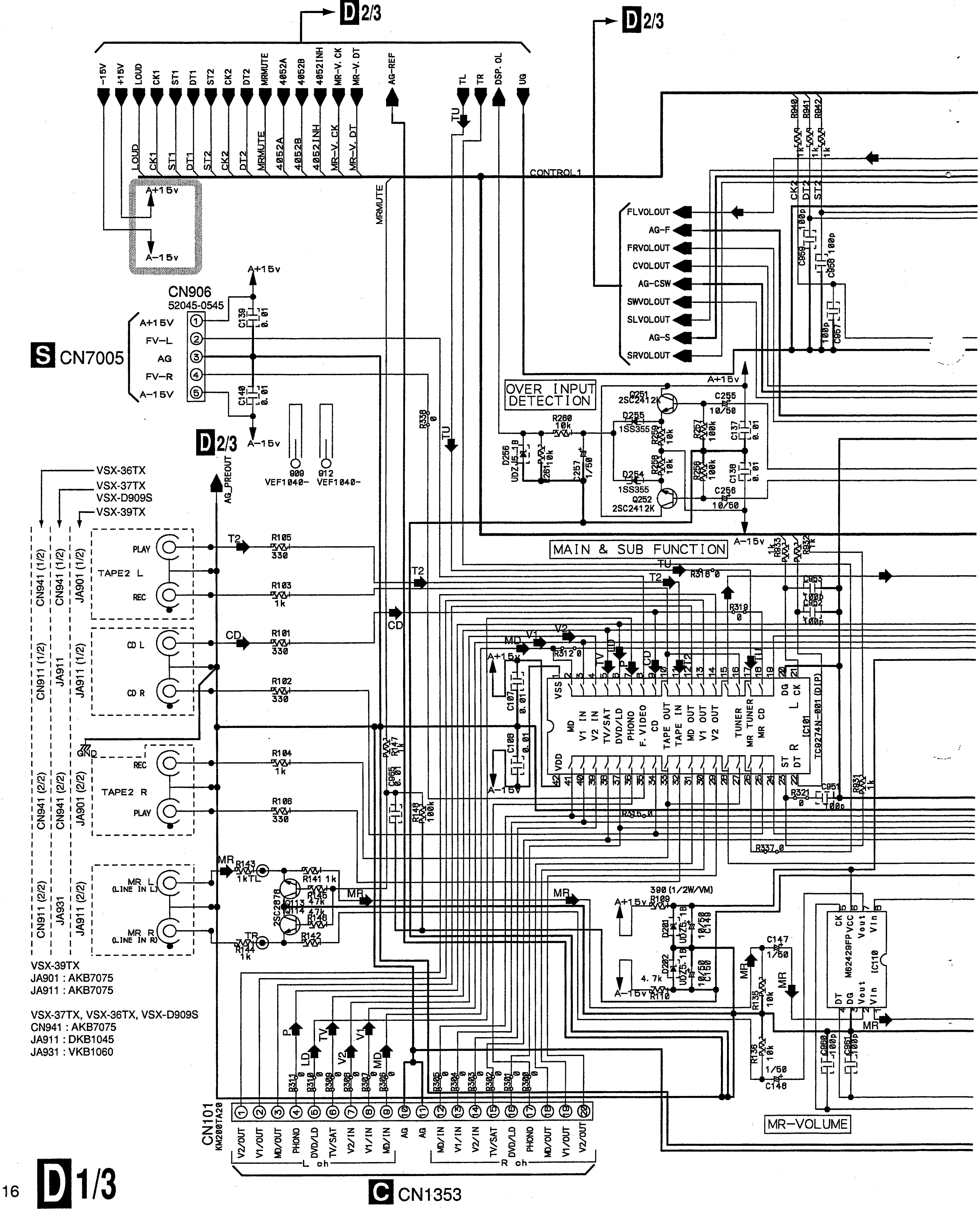
C CONNECTION ASSY (AWX7313)


BUFFER
CN1301
KM200TA8
EX FR ①
AG ②
AG ③
EX FL ④
EX C ⑤
EX SW ⑥
EX SR ⑦
EX SL ⑧
IC1301 (1/2)
NJM4558D-D
C1307
4.7/50
C1320
0.01
C1319
0.01
R1301
100k
IC1301 (2/2)
C1308
4.7/50
R1302
100k
IC1302 (1/2) NJM4558D-D
C1309
4.7/50
C1322
0.01
C1321
0.01
R1303
100k
IC1302 (2/2)
C1310
4.7/50
R1304
100k
IC1303 (1/2) NJM4558D-D
C1311
4.7/50
C1324
0.01
C1323
0.01
R1305
100k
IC1303 (2/2)
C1312
4.7/50
R1306
100k
R1308
22k
R1307
10k
-3dB
CN1302
KP200TA10L
① +15V
② EX FL
③ EX FR
④ EX C
⑤ AG
⑥ AG
⑦ EX SR
⑧ EX SL
⑨ EX SW
⑩ -15V
D 1/3 CN103
CN1351
KM200TA16
V2/O L ⑯
V1/O L ⑰
MD/O L ⑯
MD/O R ⑮
MD/IN L ⑭
MD/IN R ⑬
V2/O R ⑫
V2/IN L ⑪
AG ⑩
AG ⑨
V2/IN R ⑧
V1/O R ⑦
V1/IN L ⑥
V1/IN R ⑤
DVD/LD L ④
TV/SAT L ③
TV/SAT R ②
DVD/LD R ①
MD
V2
V1
LD
TV
CN1353
KP200TA20L
① V2/O L
② V1/O L
③ MD/O L
④ PHONO L
⑤ DVD/LD L
⑥ TV/SAT L
⑦ V2/IN L
⑧ V1/IN L
⑨ MD/IN L
⑩ AG
⑪ AG
⑫ MD/IN R
⑬ V1/IN R
⑭ V2/IN R
⑮ TV/SAT R
⑯ DVD/LD R
⑰ PHONO R
⑱ MD/O R
⑲ V1/O R
⑳ V2/O R
P
LD
TV
V2
V1
MD
D 1/3 CN101
PHONO RIAA-EQ
P
R1353
330
C1351
10/50
IC1351 (1/2)
M5220P
R1363 C1363
470 2.2/50
R1351
100k
R1355
100k
R1357
510
C1357
47/25
R1359 R1361
390k 30k
C1359 C1361
6200p 2400p
CQMA CQMA
R1365
220k
CN1352
KM200TA4
PHONO L ④
AG ③
AG ②
PHONO R ①
R1352
100k
R1356
100k
R1358
510
C1358
47/25
C1360 C1362
6200p 2400p
CQMA CQMA
390k 30k
R1360 R1362
C1366
100/16
R1366
220k
470 2.2/50
R1364 C1364
10/50
C1352
R1354
330
C1365
100/16
IC1351 (2/2)
RIAA EQ.

LD: AUDIO SIGNAL ROUTE (LD)
TV: AUDIO SIGNAL ROUTE (TV)
V1: AUDIO SIGNAL ROUTE (VCR1)
V2: AUDIO SIGNAL ROUTE (VCR2)
MD: AUDIO SIGNAL ROUTE (MD)
P: AUDIO SIGNAL ROUTE (PHONO)

3.4 MAIN CONTROL ASSY (1/3)

▭ : The power supply is shown with the marked box.

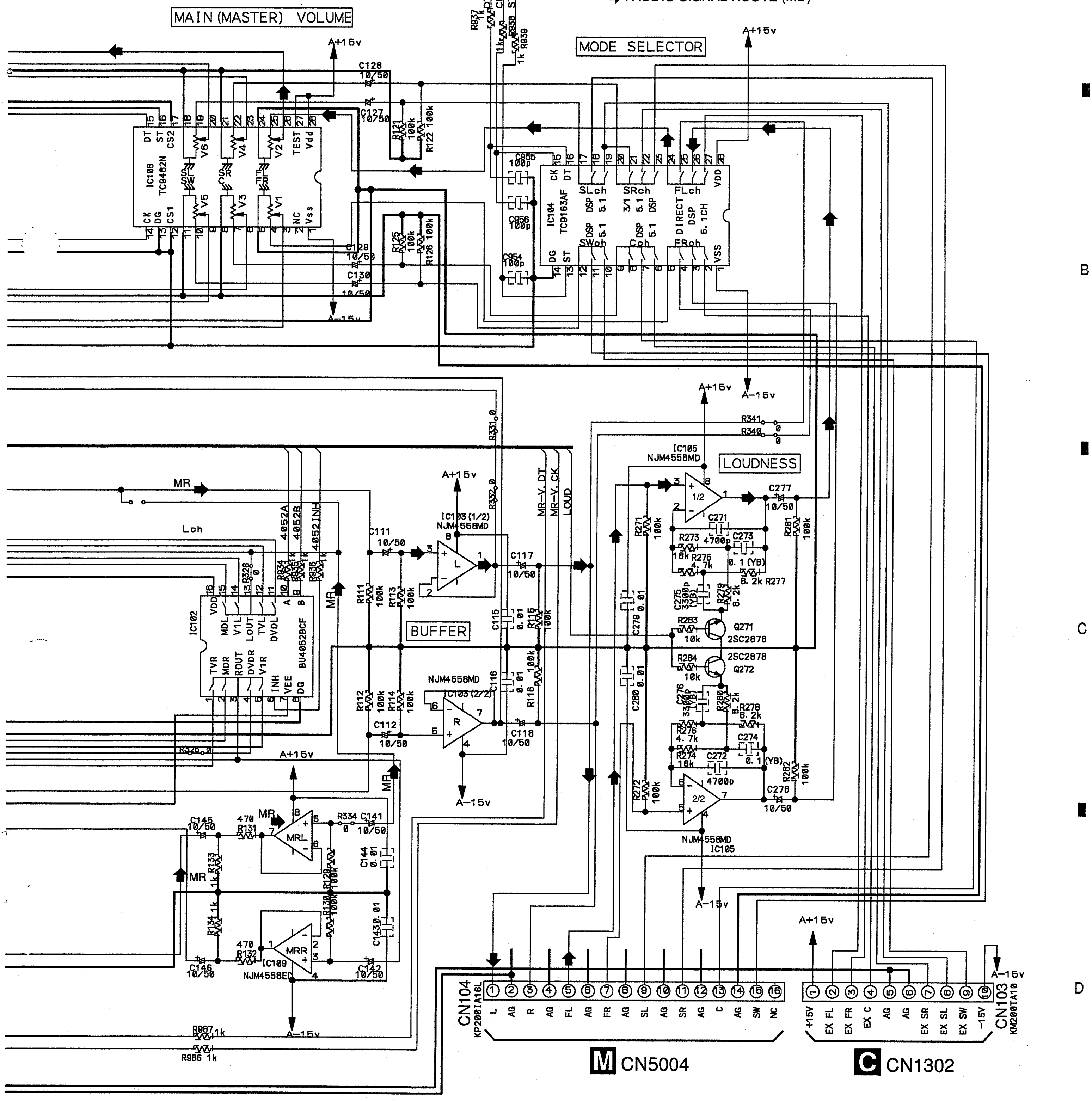

D 2/3
D 2/3
-15V
+15V
LOUD
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
4052A
4052B
4052INH
MR-V.CK
MR-V.DT
AG-REF
TL
TR
DSP.OL
UG
TU
CONTROL 1
A+15v
A-15v
CN906
52045-0545
S CN7005
A+15V
FV-L
AG
FV-R
A-15V
C139 0.01
C140 0.01
D 2/3
AG_PREOUT
909 VEF1040-
912 VEF1040-
R338 0
FLVOLOUT
AG-F
FRVOLOUT
CVOLOUT
AG-CSW
SWVOLOUT
SLVOLOUT
AG-S
SRVOLOUT
R940
R941
R942
CK2
DT2
ST2
C959 100p
C958 100p
C957 100p
OVER INPUT DETECTION
Q251 2SC2412K
D255 1SS355
D254 1SS355
Q252 2SC2412K
R260 10k
D256 UDZ5.1B
R261 10k
C257 1/50
R259 10k
R258 10k
R257 100k
R256 100k
C255 10/50
C256 10/50
C137 0.01
C138 0.01
MAIN & SUB FUNCTION
R333 1k
R332 1k
R316 0
R318 0
R312 0
C953 100p
C952 100p
VSX-36TX
VSX-37TX
VSX-D909S
VSX-39TX
CN941 (1/2)
CN941 (1/2)
JA901 (1/2)
PLAY
TAPE2 L
REC
T2
R105 330
R103 1k
CN911 (1/2)
JA911
JA911 (1/2)
CD L
CD R
CD
R101 330
R102 330
GND
REC
TAPE2 R
PLAY
R104 1k
R106 330
CN941 (2/2)
CN941 (2/2)
JA901 (2/2)
CN911 (2/2)
JA931
JA911 (2/2)
MR L (LINE IN L)
MR R (LINE IN R)
MR
R143 1k
TL
TR
R144 1k
2SC2878
Q113
Q114
R141 1k
R145 47k
R146 47k
R142
C965 0.01
R147 1k
R148 100k
MD
V1
V2
LD
TV
P
A+15v
A-15v
C107 0.01
C108 0.01
VSS
VDD
MD
V1 IN
V2 IN
TV/SAT
DVD/LD
PHONO
F.VIDEO
CD
TAPE OUT
TAPE IN
MD OUT
V1 OUT
V2 OUT
TUNER
MR TUNER
MR CD
DG
CK
L
R
ST
DT
IC101
TC9274N-001 (DIP)
R321 0
C951 100p
R331 1k
R335 0
R337 0
390 (1/2W/VM)
R109
D201 UDZ5.1B
D202 UDZ5.1B
C149 10/50
C150 10/50
4.7k R110
C147 1/50
R135 10k
R136 10k
C148 1/50
C960 100p
C961 100p
IC110
M62429FP
CK
DG
Vout
VCC
Vin
DT
MR-VOLUME
CN101
KM200TA20
V2/OUT
V1/OUT
MD/OUT
PHONO
DVD/LD
TV/SAT
V2/IN
V1/IN
MD/IN
AG
AG
MD/IN
V1/IN
V2/IN
TV/SAT
DVD/LD
PHONO
MD/OUT
V1/OUT
V2/OUT
L ch
R ch
R311 0
R310 0
R309 0
R308 0
R307 0
R306 0
R305 0
R304 0
R303 0
R302 0
R301 0
R300 0
C CN1353

VSX-39TX
JA901 : AKB7075
JA911 : AKB7075

VSX-37TX, VSX-36TX, VSX-D909S
CN941 : AKB7075
JA911 : DKB1045
JA931 : VKB1060

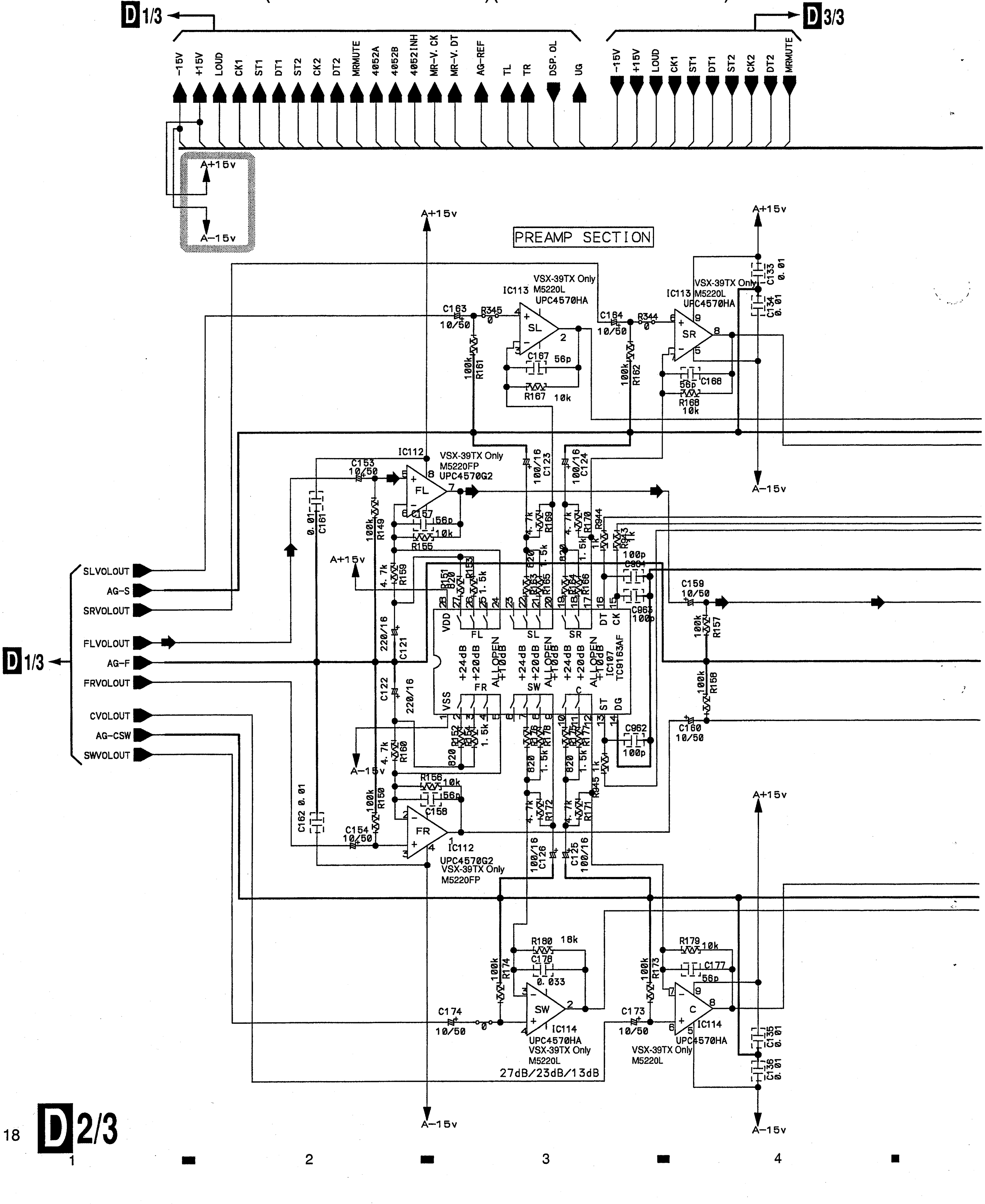
D 1/3
MAIN CONTROL ASSY
(VSX-39TX : AWX7705)
(VSX-37TX : AWX7706)(VSX-D909S : AWX7708)
(VSX-36TX : AWX7707)

➧: AUDIO SIGNAL ROUTE
LD➧: AUDIO SIGNAL ROUTE (LD)
TV➧: AUDIO SIGNAL ROUTE (TV)
V1➧: AUDIO SIGNAL ROUTE (VCR1)
V2➧: AUDIO SIGNAL ROUTE (VCR2)
MD➧: AUDIO SIGNAL ROUTE (MD)
P➧: AUDIO SIGNAL ROUTE (PHONO)
TU➧: AUDIO SIGNAL ROUTE (TUNER)
CD➧: AUDIO SIGNAL ROUTE (CD)
T2➧: AUDIO SIGNAL ROUTE (TAPE2)
MR➧: AUDIO SIGNAL ROUTE (MR)


MAIN (MASTER) VOLUME
IC108 TC9482N
MODE SELECTOR
IC104 TC9163AF
A+15v
A−15v
C128 10/50
C127 10/50
R121 100k
R122 100k
R125 100k
R126 100k
C129 10/50
C130 10/50
R937 1k
R938 1k
R939 1k
DT1
CK1
ST1
C955 100p
C956 100p
C954 100p
SLch
SRch
FLch
SWch
Cch
FRch
DIRECT DSP 5.1CH
R331 0
R332 0
MR
Lch
IC102 BU4052BCF
4052A
4052B
4052INH
R934
R935 1k
R936 1k
R328 0
R326 0
IC103 (1/2) NJM4558MD
IC103 (2/2) NJM4558MD
BUFFER
C111 10/50
C112 10/50
C117 10/50
C118 10/50
C115 0.01
C116 0.01
R111 100k
R112 100k
R113 100k
R114 100k
R115 100k
R116 100k
MR−V. DT
MR−V. CK
LOUD
IC105 NJM4558MD
LOUDNESS
R341 0
R340 0
C277 10/50
C278 10/50
C271
C272 4700p
C273
C274 0.1 (YB)
R271 100k
R272 100k
R273 18k
R274 18k
R275 4.7k
R276 4.7k
R277 8.2k
R278 8.2k
R279 8.2k
R280 8.2k
R281 100k
R282 100k
R283 10k
R284 10k
C275 3300p (YB)
C276 3300p (YB)
C279 0.01
C280 0.01
Q271 2SC2878
Q272 2SC2878
IC109 NJM4558ED
MRL
MRR
C145 10/50
C146 10/50
C141 10/50
C142 10/50
C143 0.01
C144 0.01
R131 470
R132 470
R133 1k
R134 1k
R129 100k
R130 100k
R334 0
R987 1k
R986 1k
CN104 KP200IA16L
L AG R AG FL AG FR AG SL AG SR AG C AG SW NC
CN103 KM200TA10
+15V EX FL EX FR EX C AG AG EX SR EX SL EX SW −15V
M CN5004
C CN1302

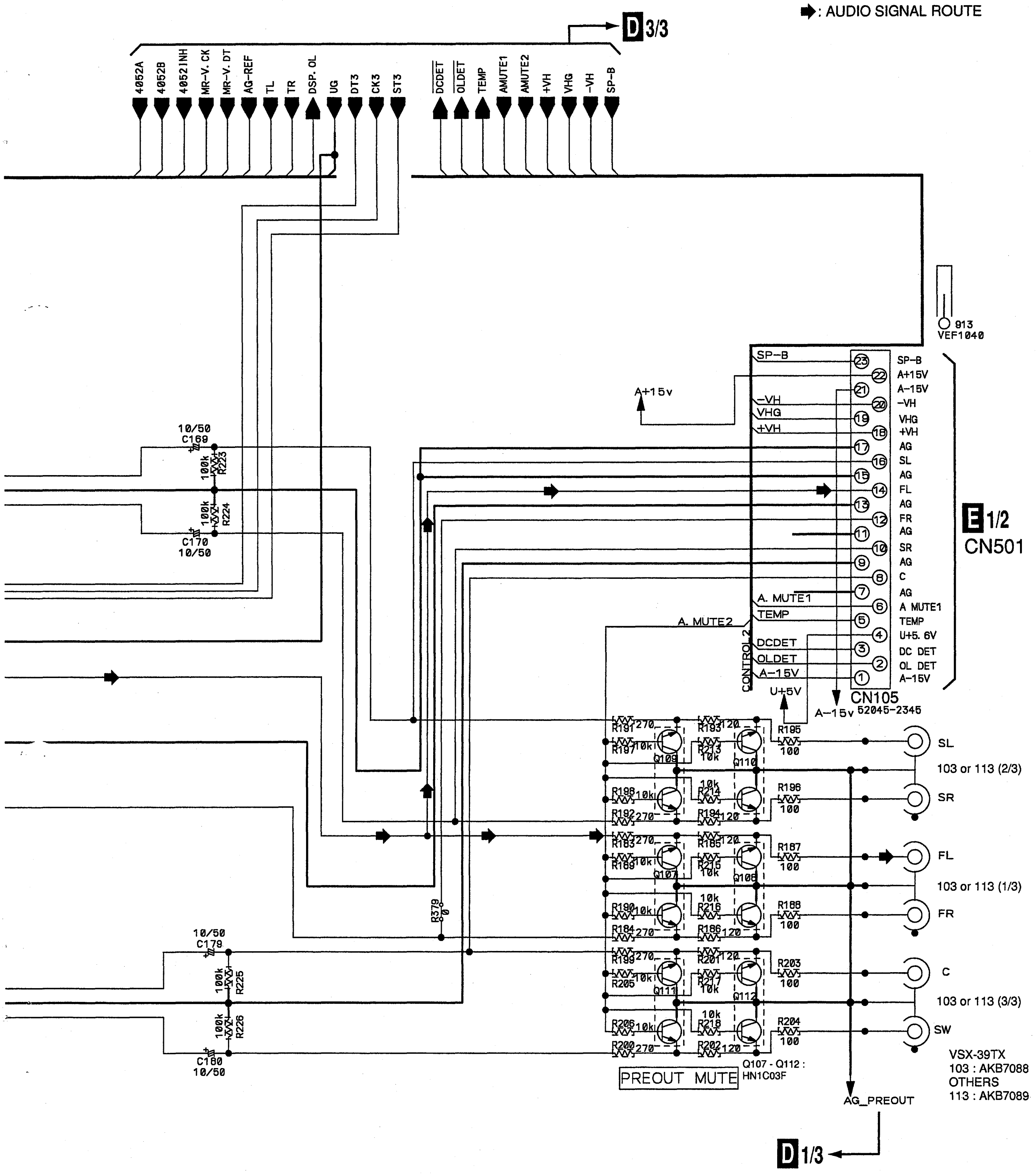
3.5 MAIN CONTROL ASSY (2/3)

D 2/3 MAIN CONTROL ASSY
(VSX-39TX : AWX7705)(VSX-37TX : AWX7706)
(VSX-36TX : AWX7707)(VSX-D909S : AWX7708)

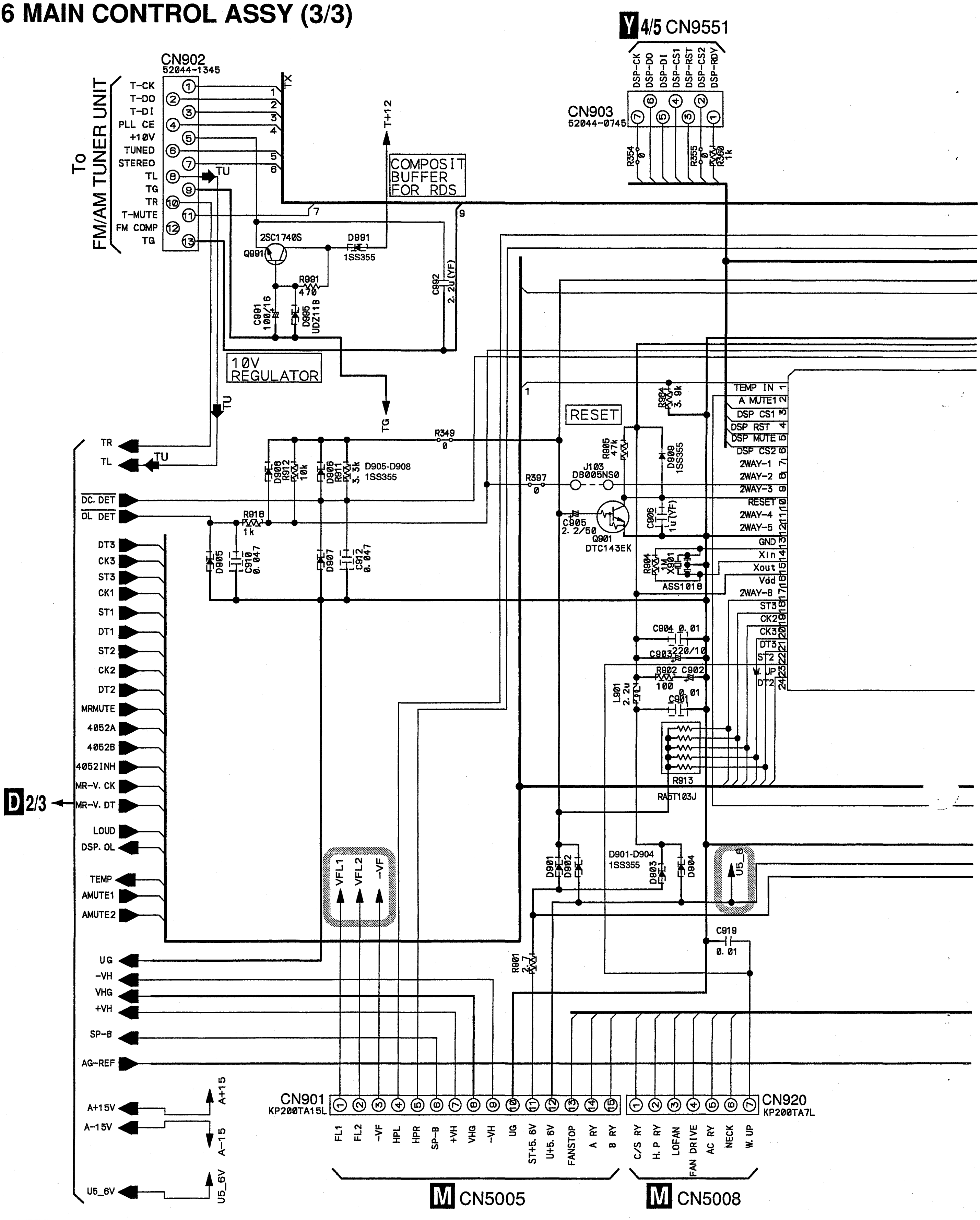

D 1/3
D 3/3
−15V
+15V
LOUD
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
4052A
4052B
4052INH
MR-V. CK
MR-V. DT
AG-REF
TL
TR
DSP. OL
UG
A+15v
A−15v
PREAMP SECTION
IC113
VSX-39TX Only
M5220L
UPC4570HA
SL
SR
C163
10/50
R345
C164
R344
R161
R162
100k
C167
56p
R167
10k
C168
R168
C133
C134
0.01
IC112
M5220FP
UPC4570G2
FL
FR
C153
C154
C157
C158
R155
R156
R149
R150
R159
R160
4.7k
C161
C162
C121
C122
220/16
C123
C124
C125
C126
100/16
R151
R152
R153
R154
R163
R164
R165
R166
R169
R170
R171
R172
R173
R174
R175
R176
R177
R178
820
1.5k
R943
R944
R945
1k
C961
C962
C963
C964
100p
IC107
TC9163AF
VDD
VSS
DT
CK
ST
DG
SW
C
+24dB
+20dB
+10dB
ALL OPEN
C159
C160
R157
R158
SLVOLOUT
AG-S
SRVOLOUT
FLVOLOUT
AG-F
FRVOLOUT
CVOLOUT
AG-CSW
SWVOLOUT
IC114
R180
18k
R179
C176
0.033
C177
C173
C174
C135
C136
27dB/23dB/13dB

: The power supply is shown with the marked box.

➡: AUDIO SIGNAL ROUTE


D 3/3
4052A
4052B
4052INH
MR-V.CK
MR-V.DT
AG-REF
TL
TR
DSP.OL
UG
DT3
CK3
ST3
DCDET
OLDET
TEMP
AMUTE1
AMUTE2
+VH
VHG
-VH
SP-B
913
VEF1040
SP-B
A+15v
-VH
VHG
+VH
A. MUTE1
TEMP
A. MUTE2
DCDET
OLDET
A-15V
CONTROL 2
U+5V
A-15v
CN105
52045-2345
SP-B
A+15V
A-15V
-VH
VHG
+VH
AG
SL
AG
FL
AG
FR
AG
SR
AG
C
AG
A MUTE1
TEMP
U+5.6V
DC DET
OL DET
A-15V
E 1/2
CN501
10/50
C169
100k
R223
100k
R224
C170
10/50
10/50
C179
100k
R225
100k
R226
C180
10/50
R379
0
R191 270
R197 10k
Q109
R193 120
R213 10k
Q110
R195 100
R198 10k
R192 270
R214 10k
R194 120
R196 100
R183 270
R189 10k
Q107
R185 120
R215 10k
Q108
R187 100
R190 10k
R184 270
R216 10k
R186 120
R188 100
R199 270
R205 10k
Q111
R201 120
R217 10k
Q112
R203 100
R206 10k
R200 270
R218 10k
R202 120
R204 100
PREOUT MUTE
Q107 - Q112 :
HN1C03F
SL
SR
103 or 113 (2/3)
FL
FR
103 or 113 (1/3)
C
SW
103 or 113 (3/3)
VSX-39TX
103 : AKB7088
OTHERS
113 : AKB7089
AG_PREOUT
D 1/3

3.6 MAIN CONTROL ASSY (3/3)

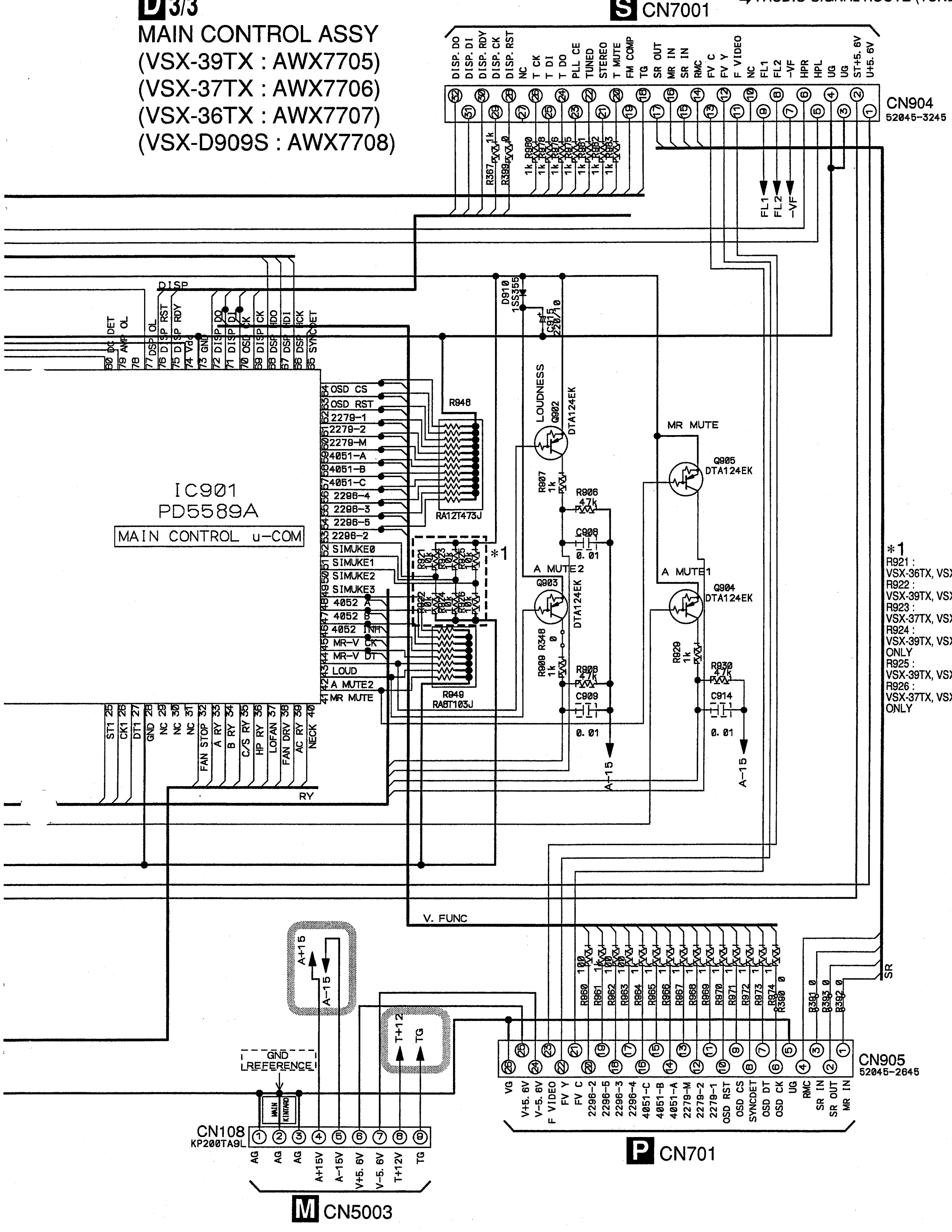

Y 4/5 CN9551
DSP-CK
DSP-DO
DSP-DI
DSP-CS1
DSP-RST
DSP-CS2
DSP-RDY
CN903
52044-0745
R354 0
R355 0
R350 1k
CN902
52044-1345
To FM/AM TUNER UNIT
T-CK
T-DO
T-DI
PLL CE
+10V
TUNED
STEREO
TL
TG
TR
T-MUTE
FM COMP
TG
TX
TU
T+12
COMPOSIT BUFFER FOR RDS
2SC1740S
Q991
D991
1SS355
R991
470
C991
100/16
D995
UDZ11B
C992
2.2u(YF)
10V REGULATOR
TG
TU
TR
TL
DC. DET
DL DET
R349
0
R918
1k
D908
R912
10k
D906
R911
3.3k
D905-D908
1SS355
D905
C910
0.047
D907
C912
0.047
R397
0
J103
DB005NS0
RESET
R905
47k
D909
1SS355
R904
3.9k
C905
2.2/50
Q901
DTC143EK
C906
1u(YF)
R904
1M
X901
ASS1018
TEMP IN
A MUTE1
DSP CS1
DSP RST
DSP MUTE
DSP CS2
2WAY-1
2WAY-2
2WAY-3
RESET
2WAY-4
2WAY-5
GND
Xin
Xout
Vdd
2WAY-6
ST3
CK2
CK3
DT3
ST2
W. UP
DT2
C904 0.01
C903 220/10
R902 100
C902 0.01
L901 2.2u
C901
R913
RA5T103J
D901-D904
1SS355
D901
D902
D903
D904
U5_6
C919
0.01
R901
DT3
CK3
ST3
CK1
ST1
DT1
ST2
CK2
DT2
MRMUTE
4052A
4052B
4052INH
MR-V. CK
MR-V. DT
D 2/3
LOUD
DSP. OL
TEMP
AMUTE1
AMUTE2
VFL1
VFL2
-VF
UG
-VH
VHG
+VH
SP-B
AG-REF
A+15V
A-15V
A+15
A-15
U5_6V
U5_6V
CN901
KP200TA15L
FL1
FL2
-VF
HPL
HPR
SP-B
+VH
VHG
-VH
UG
ST+5.6V
U+5.6V
FANSTOP
A RY
B RY
CN920
KP200TA7L
C/S RY
H.P RY
LOFAN
FAN DRIVE
AC RY
NECK
W. UP
M CN5005
M CN5008

: The power supply is shown with the marked box.

TU ➡: AUDIO SIGNAL ROUTE (TUNER)

D 3/3

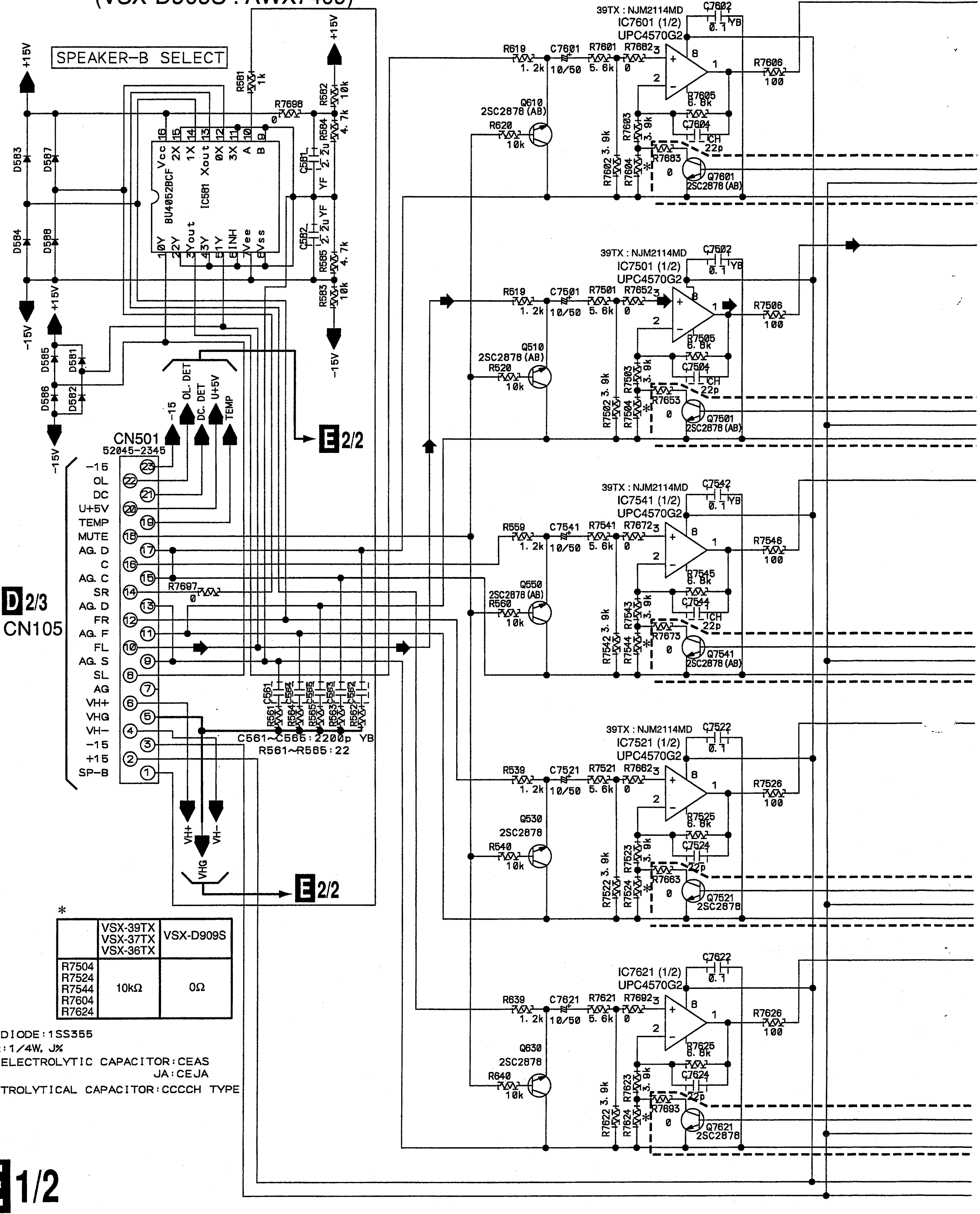
MAIN CONTROL ASSY
(VSX-39TX : AWX7705)
(VSX-37TX : AWX7706)
(VSX-36TX : AWX7707)
(VSX-D909S : AWX7708)


S CN7001
DISP. DO
DISP. DI
DISP. RDY
DISP. CK
DISP. RST
NC
T CK
T DI
T DO
PLL CE
TUNED
STEREO
T MUTE
FM COMP
TG
SR OUT
MR IN
SR IN
RMC
FV C
FV Y
F VIDEO
NC
FL1
FL2
-VF
HPR
HPL
UG
UG
ST+5.6V
U+5.6V
CN904
52045-3245
R367
R399
R980
R978
R976
R975
R981
R982
R983
FL1
FL2
-VF
DISP
D910
1SS355
C915
220/10
IC901
PD5589A
MAIN CONTROL u-COM
OSD CS
OSD RST
2279-1
2279-2
2279-M
4051-A
4051-B
4051-C
2296-4
2296-3
2296-5
2296-2
SIMUKE0
SIMUKE1
SIMUKE2
SIMUKE3
4052 A
4052 B
4052 INH
MR-V CK
MR-V DT
LOUD
A MUTE2
MR MUTE
R948
RA12T473J
R949
RA8T103J
*1
R921
R922
R923
R924
R925
R926
LOUDNESS
Q902
DTA124EK
R907
R906
C908
0.01
A MUTE2
Q903
DTA124EK
R909
R348
R908
C909
0.01
A-15
MR MUTE
Q905
DTA124EK
A MUTE1
Q904
DTA124EK
R920
R930
C914
0.01
A-15
ST1
CK1
DT1
GND
NC
FAN STOP
A RY
B RY
C/S RY
HP RY
LOFAN
FAN DRV
AC RY
NECK
RY
V. FUNC
A+15
A-15
T+12
TG
GND REFERENCE
MAIN
KINTAND
CN108
KP200TA9L
AG
AG
AG
A+15V
A-15V
V+5.6V
V-5.6V
T+12V
TG
M CN5003
R960
R961
R962
R963
R964
R965
R966
R967
R968
R969
R970
R971
R972
R973
R974
R390
R391
R393
R392
SR
CN905
52045-2645
VG
V+5.6V
V-5.6V
F VIDEO
FV Y
FV C
2296-2
2296-5
2296-3
2296-4
4051-C
4051-B
4051-A
2279-M
2279-2
2279-1
OSD RST
OSD CS
SYNCDET
OSD DT
OSD CK
UG
RMC
SR IN
SR OUT
MR IN
P CN701

*1
R921 :
VSX-36TX, VSX-D909S ONLY
R922 :
VSX-39TX, VSX-37TX ONLY
R923 :
VSX-37TX, VSX-D909S ONLY
R924 :
VSX-39TX, VSX-36TX ONLY
R925 :
VSX-39TX, VSX-D909S ONLY
R926 :
VSX-37TX, VSX-36TX ONLY

3.7 V-AMP ASSY (1/2)

E 1/2 V-AMP ASSY
(VSX-39TX : AWX7729)(VSX-37TX, VSX-36TX : AWX7309)
(VSX-D909S : AWX7409)

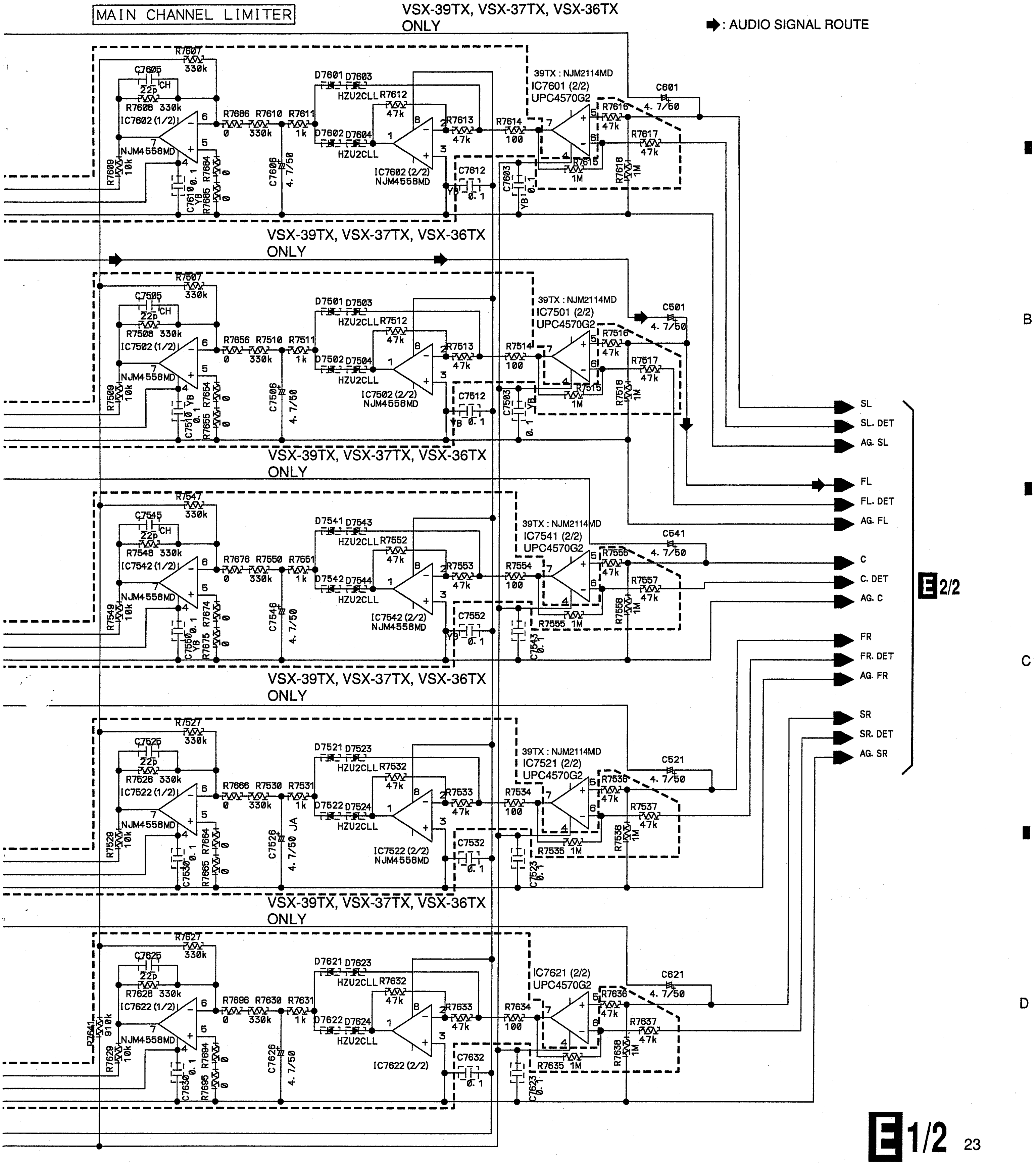

A
B
C
D
SPEAKER-B SELECT
+15V
-15V
D583
D584
D587
D588
D585
D586
D581
D582
IC581
BU4052BCF
Vcc 16
2X 15
1X 14
Xout 13
0X 12
3X 11
A 10
B 9
0Y 1
2Y 2
Yout 3
3Y 4
1Y 5
INH 6
Vee 7
Vss 8
R581 1k
R7698 0
R582 10k
R584 4.7k
C581 2.2u YF
C582 2.2u YF
R585 4.7k
R583 10k
-15
OL. DET
DC. DET
U+5V
TEMP
E 2/2
CN501
52045-2345
-15 23
OL 22
DC 21
U+5V 20
TEMP 19
MUTE 18
AG. D 17
C 16
AG. C 15
SR 14
AG. D 13
FR 12
AG. F 11
FL 10
AG. S 9
SL 8
AG 7
VH+ 6
VHG 5
VH- 4
-15 3
+15 2
SP-B 1
D 2/3
CN105
R7697 0
C561 C564 C565 C563 C562
R561 R564 R565 R563 R562
C561~C565:2200p YB
R561~R565:22
VH+
VHG
VH-
E 2/2
39TX : NJM2114MD
IC7601 (1/2)
UPC4570G2
C7602 0.1 YB
R619 1.2k
C7601 10/50
R7601 5.6k
R7682 0
R7606 100
R7605 6.8k
C7604 CH 22p
R7603 3.9k
R7602 3.9k
R7604
R7683 0
Q7601 2SC2878 (AB)
Q610 2SC2878 (AB)
R620 10k
39TX : NJM2114MD
IC7501 (1/2)
UPC4570G2
C7502 0.1 YB
R519 1.2k
C7501 10/50
R7501 5.6k
R7652 0
R7506 100
R7505 6.8k
C7504 CH 22p
R7503 3.9k
R7502 3.9k
R7504
R7653 0
Q7501 2SC2878 (AB)
Q510 2SC2878 (AB)
R520 10k
39TX : NJM2114MD
IC7541 (1/2)
UPC4570G2
C7542 0.1 YB
R559 1.2k
C7541 10/50
R7541 5.6k
R7672 0
R7546 100
R7545 6.8k
C7544 CH 22p
R7543 3.9k
R7542 3.9k
R7544
R7673 0
Q7541 2SC2878 (AB)
Q550 2SC2878 (AB)
R560 10k
39TX : NJM2114MD
IC7521 (1/2)
UPC4570G2
C7522 0.1
R539 1.2k
C7521 10/50
R7521 5.6k
R7662 0
R7526 100
R7525 6.8k
C7524 22p
R7523 3.9k
R7522 3.9k
R7524
R7663 0
Q7521 2SC2878
Q530 2SC2878
R540 10k
IC7621 (1/2)
UPC4570G2
C7622 0.1
R639 1.2k
C7621 10/50
R7621 5.6k
R7692 0
R7626 100
R7625 6.8k
C7624 22p
R7623 3.9k
R7622 3.9k
R7624
R7693 0
Q7621 2SC2878
Q630 2SC2878
R640 10k

*

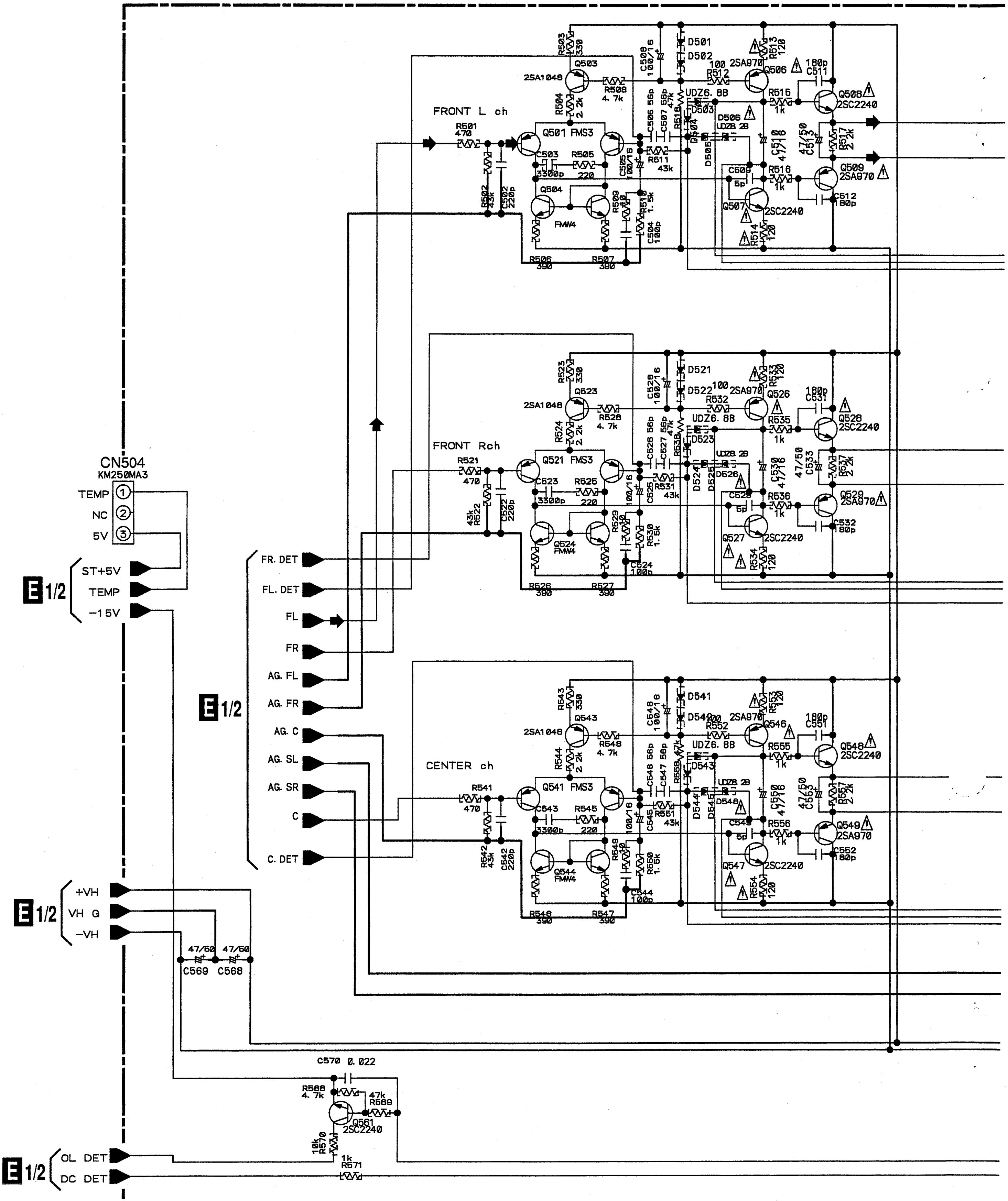
	VSX-39TX VSX-37TX VSX-36TX	VSX-D909S
R7504 R7524 R7544 R7604 R7624	10kΩ	0Ω

·NO MARK DIODE:1SS355
·RESISTOR:1/4W, J%
·NO MARK ELECTROLYTIC CAPACITOR:CEAS
JA:CEJA
·NON ELECTROLYTICAL CAPACITOR:CCCCH TYPE

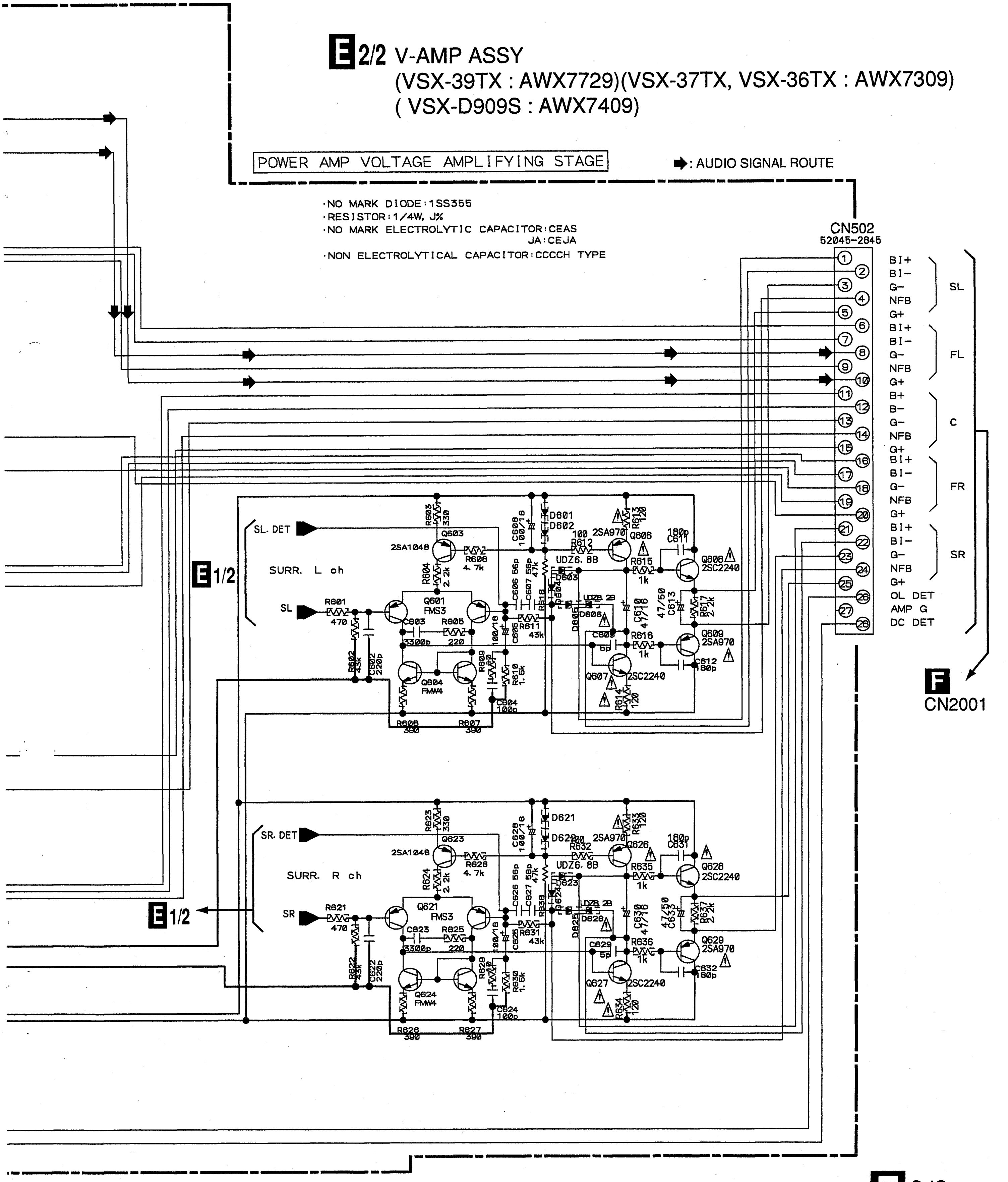
]


MAIN CHANNEL LIMITER
VSX-39TX, VSX-37TX, VSX-36TX ONLY
➡: AUDIO SIGNAL ROUTE
A
B
C
D
R7607 330k
C7605 22p CH
R7608 330k
IC7602 (1/2) NJM4558MD
R7686 0
R7610 330k
R7611 1k
R7609 10k
C7610 0.1 YB
R7684 0
R7685 0
C7606 4.7/50
D7601 D7603 HZU2CLL
D7602 D7604 HZU2CLL
R7612 47k
R7613 47k
IC7602 (2/2) NJM4558MD
C7612 0.1 YB
R7614 100
C7603 0.1 YB
39TX : NJM2114MD
IC7601 (2/2) UPC4570G2
R7615 1M
R7616 47k
R7617 47k
R7618 1M
C601 4.7/50
R7507 330k
C7505 22p CH
R7508 330k
IC7502 (1/2) NJM4558MD
R7656 0
R7510 330k
R7511 1k
R7509 10k
C7510 0.1 YB
R7654 0
R7655 0
C7506 4.7/50
D7501 D7503 HZU2CLL
D7502 D7504 HZU2CLL
R7512 47k
R7513 47k
IC7502 (2/2) NJM4558MD
C7512 0.1 YB
R7514 100
C7503 0.1 YB
39TX : NJM2114MD
IC7501 (2/2) UPC4570G2
R7515 1M
R7516 47k
R7517 47k
R7518 1M
C501 4.7/50
R7547 330k
C7545 22p CH
R7548 330k
IC7542 (1/2) NJM4558MD
R7676 0
R7550 330k
R7551 1k
R7549 10k
C7550 0.1 YB
R7674 0
R7675 0
C7546 4.7/50
D7541 D7543 HZU2CLL
D7542 D7544 HZU2CLL
R7552 47k
R7553 47k
IC7542 (2/2) NJM4558MD
C7552 0.1 YB
R7554 100
C7543 0.1
39TX : NJM2114MD
IC7541 (2/2) UPC4570G2
R7555 1M
R7556 47k
R7557 47k
R7558 1M
C541 4.7/50
R7527 330k
C7525 22p
R7528 330k
IC7522 (1/2) NJM4558MD
R7666 0
R7530 330k
R7531 1k
R7529 10k
C7530 0.1
R7664 0
R7665 0
C7526 4.7/50 JA
D7521 D7523 HZU2CLL
D7522 D7524 HZU2CLL
R7532 47k
R7533 47k
IC7522 (2/2) NJM4558MD
C7532 0.1
R7534 100
C7523 0.1
39TX : NJM2114MD
IC7521 (2/2) UPC4570G2
R7535 1M
R7536 47k
R7537 47k
R7538 1M
C521 4.7/50
R7627 330k
C7625 22p
R7628 330k
IC7622 (1/2) NJM4558MD
R7696 0
R7630 330k
R7631 1k
R7641 910k
R7629 10k
C7630 0.1
R7694 0
R7695 0
C7626 4.7/50
D7621 D7623 HZU2CLL
D7622 D7624 HZU2CLL
R7632 47k
R7633 47k
IC7622 (2/2)
C7632 0.1
R7634 100
C7623 0.1
IC7621 (2/2) UPC4570G2
R7635 1M
R7636 47k
R7637 47k
R7638 1M
C621 4.7/50
SL
SL. DET
AG. SL
FL
FL. DET
AG. FL
C
C. DET
AG. C
FR
FR. DET
AG. FR
SR
SR. DET
AG. SR
E 2/2

3.8 V-AMP ASSY (2/2)


A
B
C
D
FRONT L ch
R501 470
R502 43k
C502 220p
Q501 FMS3
C503 3300p
R505 220
Q504 FMW4
R506 390
R507 390
R503 330
Q503 2SA1048
R504 2.2k
R508 4.7k
R509 10
R510 1.5k
C504 100p
C505 100/16
C506 56p
C507 56p
R518 47k
R511 43k
C508 100/16
D501
D502
D503
D504
D505
D506
UDZ6.8B
UDZ8.2B
R512 100
Q506 2SA970
R513 120
R515 1k
C509 5p
R516 1k
Q507 2SC2240
R514 120
C510 47/16
C511 180p
Q508 2SC2240
C513 47/50
R517 2.2k
Q509 2SA970
C512 180p
FRONT Rch
R521 470
R522 43k
C522 220p
Q521 FMS3
C523 3300p
R525 220
Q524 FMW4
R526 390
R527 390
R523 330
Q523 2SA1048
R524 2.2k
R528 4.7k
R529 10
R530 1.5k
C524 100p
C525 100/16
C526 56p
C527 56p
R538 47k
R531 43k
C528 100/16
D521
D522
D523
D524
D525
D526
UDZ6.8B
UDZ8.2B
R532 100
Q526 2SA970
R533 120
R535 1k
C529 5p
R536 1k
Q527 2SC2240
R534 120
C530 47/16
C531 180p
Q528 2SC2240
C533 47/50
R537 2.2k
Q529 2SA970
C532 180p
CENTER ch
R541 470
R542 43k
C542 220p
Q541 FMS3
C543 3300p
R545 220
Q544 FMW4
R546 390
R547 390
R543 330
Q543 2SA1048
R544 2.2k
R548 4.7k
R549 10
R550 1.5k
C544 100p
C545 100/16
C546 56p
C547 56p
R558 47k
R551 43k
C548 100/16
D541
D542
D543
D544
D545
D546
UDZ6.8B
UDZ8.2B
R552 100
Q546 2SA970
R553 120
R555 1k
C549 5p
R556 1k
Q547 2SC2240
R554 120
C550 47/16
C551 180p
Q548 2SC2240
C553 47/50
R557 2.2k
Q549 2SA970
C552 180p
CN504
KM250MA3
TEMP ①
NC ②
5V ③
E 1/2
ST+5V
TEMP
−15V
E 1/2
FR. DET
FL. DET
FL
FR
AG. FL
AG. FR
AG. C
AG. SL
AG. SR
C
C. DET
E 1/2
+VH
VH G
−VH
47/50 C569
47/50 C568
C570 0.022
R568 4.7k
47k R569
Q561 2SC2240
10k R570
1k R571
E 1/2
OL DET
DC DET

E 2/2 V-AMP ASSY
(VSX-39TX : AWX7729)(VSX-37TX, VSX-36TX : AWX7309)
(VSX-D909S : AWX7409)



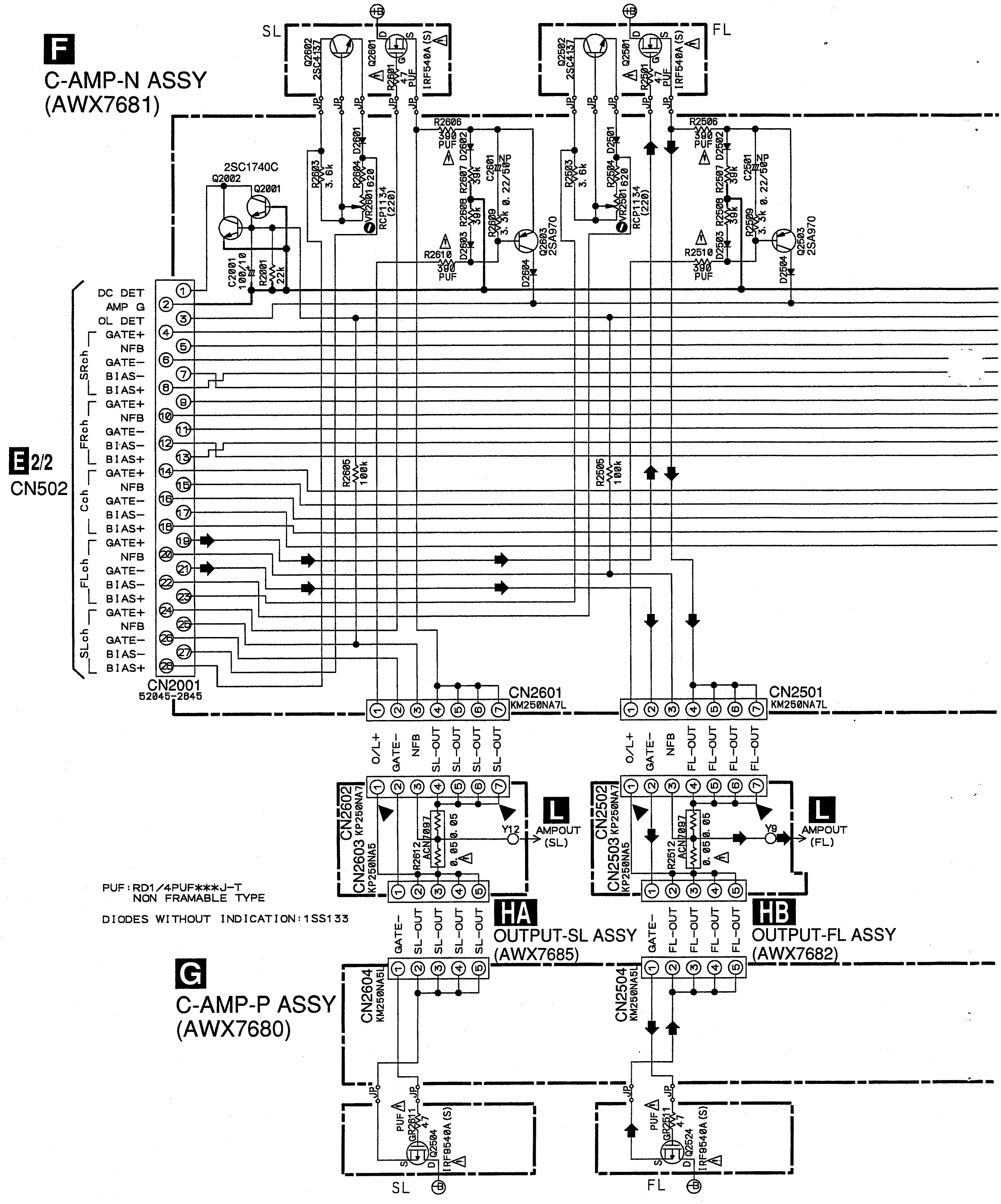
POWER AMP VOLTAGE AMPLIFYING STAGE

➡: AUDIO SIGNAL ROUTE

- NO MARK DIODE : 1SS355
- RESISTOR : 1/4W, J%
- NO MARK ELECTROLYTIC CAPACITOR : CEAS
  JA : CEJA
- NON ELECTROLYTICAL CAPACITOR : CCCCH TYPE

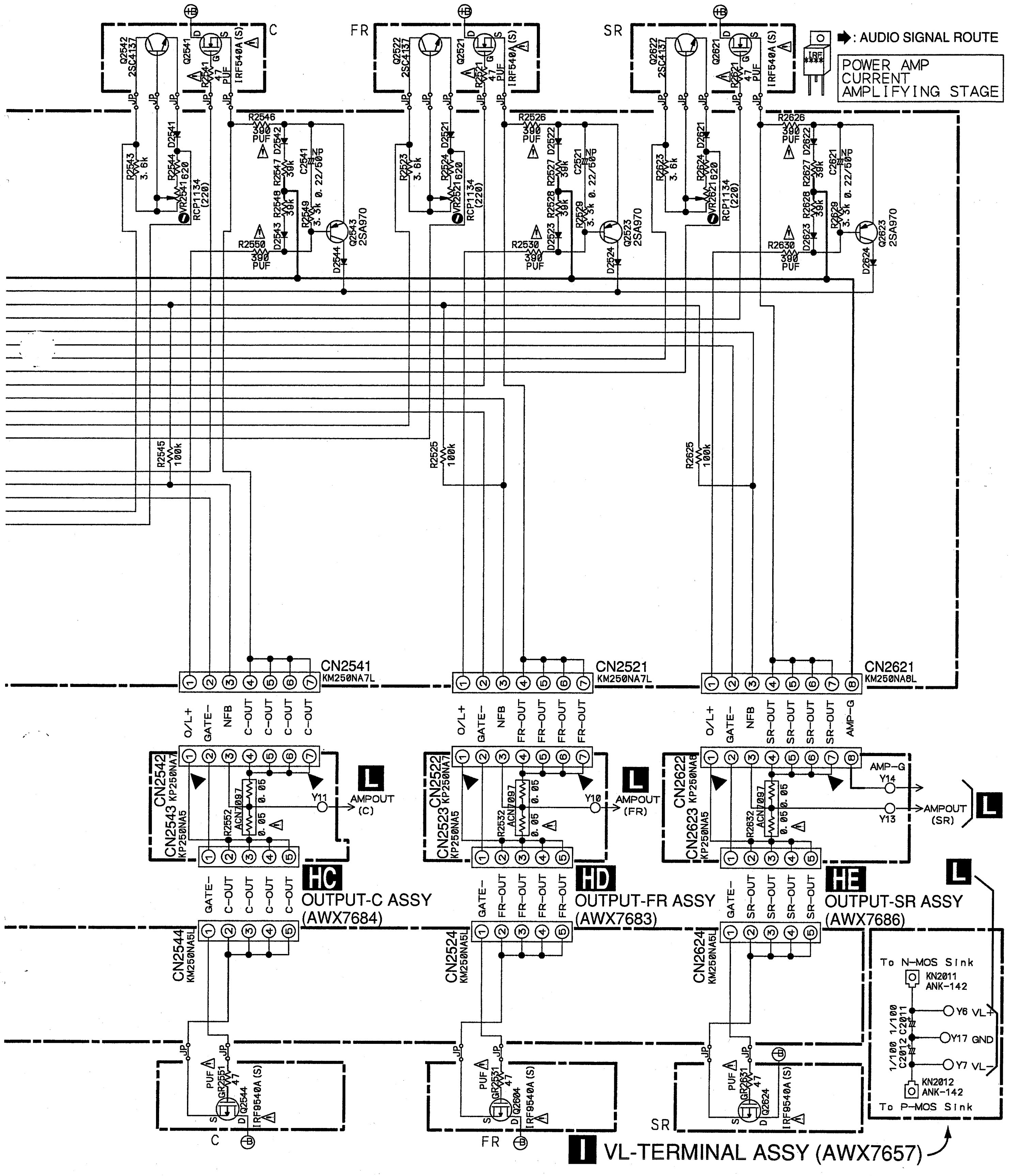
CN502
52045-2845
BI+
BI−
G−
NFB
G+
SL
FL
B+
B−
C
FR
SR
OL DET
AMP G
DC DET
F CN2001
E 1/2
SL. DET
SURR. L ch
SL
R601 470
R602 43k
C602 220p
R603 330
Q603 2SA1048
R604 2.2k
R608 4.7k
Q601 FMS3
C603 3300p
R605 220
Q604 FMW4
R606 390
R607 390
R609 10
R610 1.5k
C604 100p
C605 100/16
C606 56p
C607 56p
C608 100/16
R618 47k
R611 43k
D601
D602
D603
D604
D605
UDZ6.8B
UDZ6.2B
D606
R612 100
Q606 2SA970
R613 120
R615 1k
C611 180p
Q608 2SC2240
C610 47/16
C613 47/50
R617 2.2k
C609 5p
R616 1k
Q607 2SC2240
R614 120
Q609 2SA970
C612 180p
SR. DET
SURR. R ch
SR
R621 470
R622 43k
C622 220p
R623 330
Q623 2SA1048
R624 2.2k
R628 4.7k
Q621 FMS3
C623 3300p
R625 220
Q624 FMW4
R626 390
R627 390
R629 10
R630 1.5k
C624 100p
C625 100/16
C626 56p
C627 56p
C628 100/16
R638 47k
R631 43k
D621
D622
D623
D624
D625
D626
R632 100
Q626 2SA970
R633 120
R635 1k
C631 180p
Q628 2SC2240
C630 47/16
C633 47/50
R637 2.2k
C629 5p
R636 1k
Q627 2SC2240
R634 120
Q629 2SA970
C632 180p
A
B
C
D

3.9 C-AMP-N, C-AMP-P, OUTPUT-SL, OUTPUT-FL, OUTPUT-C, OUTPUT-FR, OUTPUT-SR and VL-TERMINAL ASSYS

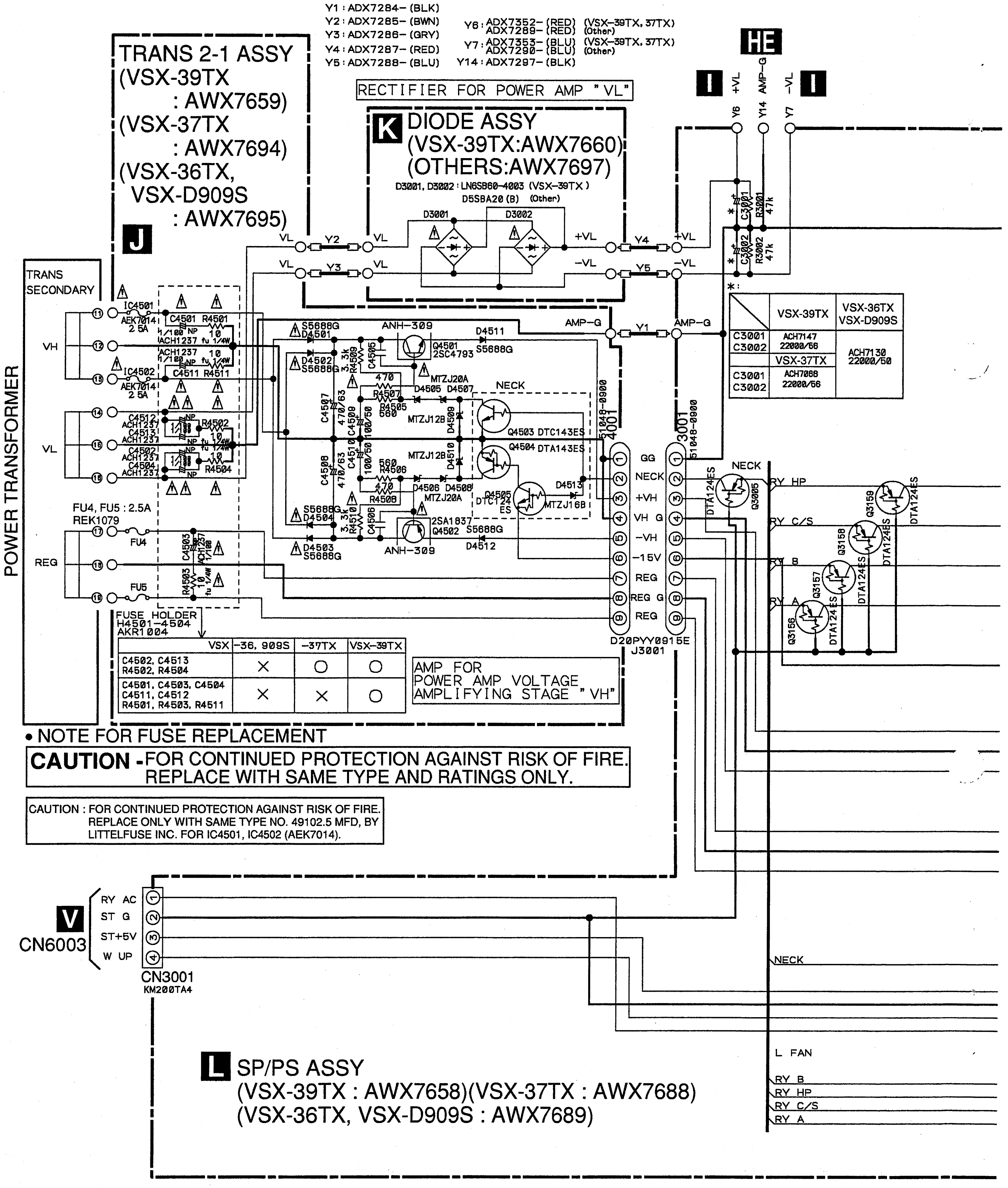

A
B
C
D
F
C-AMP-N ASSY
(AWX7681)
SL
FL
Q2602
2SC4137
Q2601
IRF540A (S)
R2601 47 PUF
Q2502
2SC4137
Q2501
IRF540A (S)
R2501 47 PUF
JP
R2606 390 PUF
R2506 390 PUF
D2601
D2602
D2501
D2502
R2603 3.6k
R2604 620
VR2601 RCP1134 (220)
R2503 3.6k
R2504 620
VR2501 RCP1134 (220)
R2607 39k
R2608 39k
R2609 3.3k
C2601 NP 0.22/50
R2507 39k
R2508 39k
R2509 3.3k
C2501 NP 0.22/50
Q2603 2SA970
Q2503 2SA970
D2603
D2604
D2503
D2504
R2610 390 PUF
R2510 390 PUF
2SC1740C
Q2002
Q2001
C2001 100/10
R2001 22k
DC DET
AMP G
OL DET
GATE+
NFB
GATE−
BIAS−
BIAS+
SRch
FRch
Cch
FLch
SLch
E 2/2
CN502
CN2001
52045-2845
R2605 100k
R2505 100k
CN2601
KM250NA7L
CN2501
KM250NA7L
O/L+
GATE−
NFB
SL−OUT
FL−OUT
CN2602 KP250NA7
CN2603 KP250NA5
CN2502 KP250NA7
CN2503 KP250NA5
R2612 ACN7097 0.05 0.05
R2512 ACN7097 0.05 0.05
Y12
Y9
L
AMPOUT (SL)
AMPOUT (FL)
HA
OUTPUT-SL ASSY
(AWX7685)
HB
OUTPUT-FL ASSY
(AWX7682)
G
C-AMP-P ASSY
(AWX7680)
CN2604 KM250NA5L
CN2504 KM250NA5L
PUF
R2611 47
Q2504
IRF9540A (S)
R2511 47
Q2524
IRF9540A (S)
S
D
G

PUF:RD1/4PUF＊＊＊J-T
NON FRAMABLE TYPE

DIODES WITHOUT INDICATION:1SS133


: AUDIO SIGNAL ROUTE
POWER AMP
CURRENT
AMPLIFYING STAGE
C
FR
SR
Q2542 2SC4137
Q2541 IRF540A (S)
R2541 47 PUF
Q2522 2SC4137
Q2521 IRF540A (S)
R2521 47 PUF
Q2622 2SC4137
Q2621 IRF540A (S)
R2621 47 PUF
R2546 390 PUF
R2526 390 PUF
R2626 390 PUF
D2541
D2521
D2621
D2542
D2522
D2622
R2543 3.6k
R2523 3.6k
R2623 3.6k
R2544 620
R2524 620
R2624 620
VR2541 RCP1134 (220)
VR2521 RCP1134 (220)
VR2621 RCP1134 (220)
R2547 39k
R2527 39k
R2627 39k
C2541 0.22/50
C2521 0.22/50
C2621 0.22/50
R2548 39k
R2528 39k
R2628 39k
R2549 3.3k
R2529 3.3k
R2629 3.3k
Q2543 2SA970
Q2523 2SA970
Q2623 2SA970
D2543
D2523
D2623
D2544
D2524
D2624
R2550 390 PUF
R2530 390 PUF
R2630 390 PUF
R2545 100k
R2525 100k
R2625 100k
CN2541 KM250NA7L
CN2521 KM250NA7L
CN2621 KM250NA8L
O/L+
GATE-
NFB
C-OUT
FR-OUT
SR-OUT
AMP-G
CN2542 KP250NA7
CN2543 KP250NA5
CN2522 KP250NA7
CN2523 KP250NA5
CN2622 KP250NA8
CN2623 KP250NA5
R2552 ACN7097 0.05 0.05
R2532 ACN7097 0.05 0.05
R2632 ACN7097 0.05 0.05
Y11 AMPOUT (C)
Y10 AMPOUT (FR)
AMP-G Y14
Y13 AMPOUT (SR)
L
HC OUTPUT-C ASSY (AWX7684)
HD OUTPUT-FR ASSY (AWX7683)
HE OUTPUT-SR ASSY (AWX7686)
CN2544 KM250NA5L
CN2524 KM250NA5L
CN2624 KM250NA5L
JP
PUF GR2551 47
PUF GR2531 47
PUF GR2631 47
Q2544 IRF9540A (S)
Q2604 IRF9540A (S)
Q2624 IRF9540A (S)
S D
To N-MOS Sink
KN2011 ANK-142
Y6 VL+
Y17 GND
Y7 VL-
C2012 1/100 C2011 1/100
KN2012 ANK-142
To P-MOS Sink
I VL-TERMINAL ASSY (AWX7657)

3.10 TRANS 2-1, DIODE and SP/PS ASSYS


Y1 : ADX7284- (BLK)
Y2 : ADX7285- (BWN)
Y3 : ADX7286- (GRY)
Y4 : ADX7287- (RED)
Y5 : ADX7288- (BLU)
Y6 : ADX7352- (RED) (VSX-39TX, 37TX)
ADX7289- (RED) (Other)
Y7 : ADX7353- (BLU) (VSX-39TX, 37TX)
ADX7290- (BLU) (Other)
Y14 : ADX7297- (BLK)
TRANS 2-1 ASSY
(VSX-39TX : AWX7659)
(VSX-37TX : AWX7694)
(VSX-36TX, VSX-D909S : AWX7695)
J
RECTIFIER FOR POWER AMP "VL"
K DIODE ASSY
(VSX-39TX:AWX7660)
(OTHERS:AWX7697)
D3001, D3002 : LN6SB60-4003 (VSX-39TX)
D5SBA20 (B) (Other)
D3001
D3002
HE
I
+VL
AMP-G
-VL
Y6
Y14
Y7
VL
-VL
AMP-G
C3001
C3002
R3001 47k
R3002 47k
TRANS SECONDARY
POWER TRANSFORMER
VH
VL
REG
IC4501 AEK7014 2.5A
IC4502 AEK7014 2.5A
C4501 R4501
C4511 R4511
ACH1237
C4502 C4503 C4504 C4512 C4513
R4502 R4503 R4504
FU4, FU5 : 2.5A
REK1079
FU4
FU5
FUSE HOLDER
H4501-4504
AKR1004
ANH-309
Q4501 2SC4793
Q4502 2SA1837
Q4503 DTC143ES
Q4504 DTA143ES
Q4505 DTC124ES
D4501 D4502 D4503 D4504 S5688G
D4505 D4506 D4507 D4508 MTZJ20A
D4509 D4510 MTZJ12B
D4511 D4512 S5688G
D4513 MTZJ16B
NECK
AMP FOR POWER AMP VOLTAGE AMPLIFYING STAGE "VH"
4001 51048-0900
3001 51048-0900
GG
NECK
+VH
VH G
-VH
-15V
REG
REG G
REG
D20PYY0915E
J3001
Q3005 DTA124ES
Q3156 DTA124ES
Q3157 DTA124ES
Q3158 DTA124ES
Q3159 DTA124ES
RY HP
RY C/S
RY B
RY A
V
CN6003
RY AC
ST G
ST+5V
W UP
CN3001
KM200TA4
NECK
L FAN
RY B
RY HP
RY C/S
RY A
L SP/PS ASSY
(VSX-39TX : AWX7658)(VSX-37TX : AWX7688)
(VSX-36TX, VSX-D909S : AWX7689)

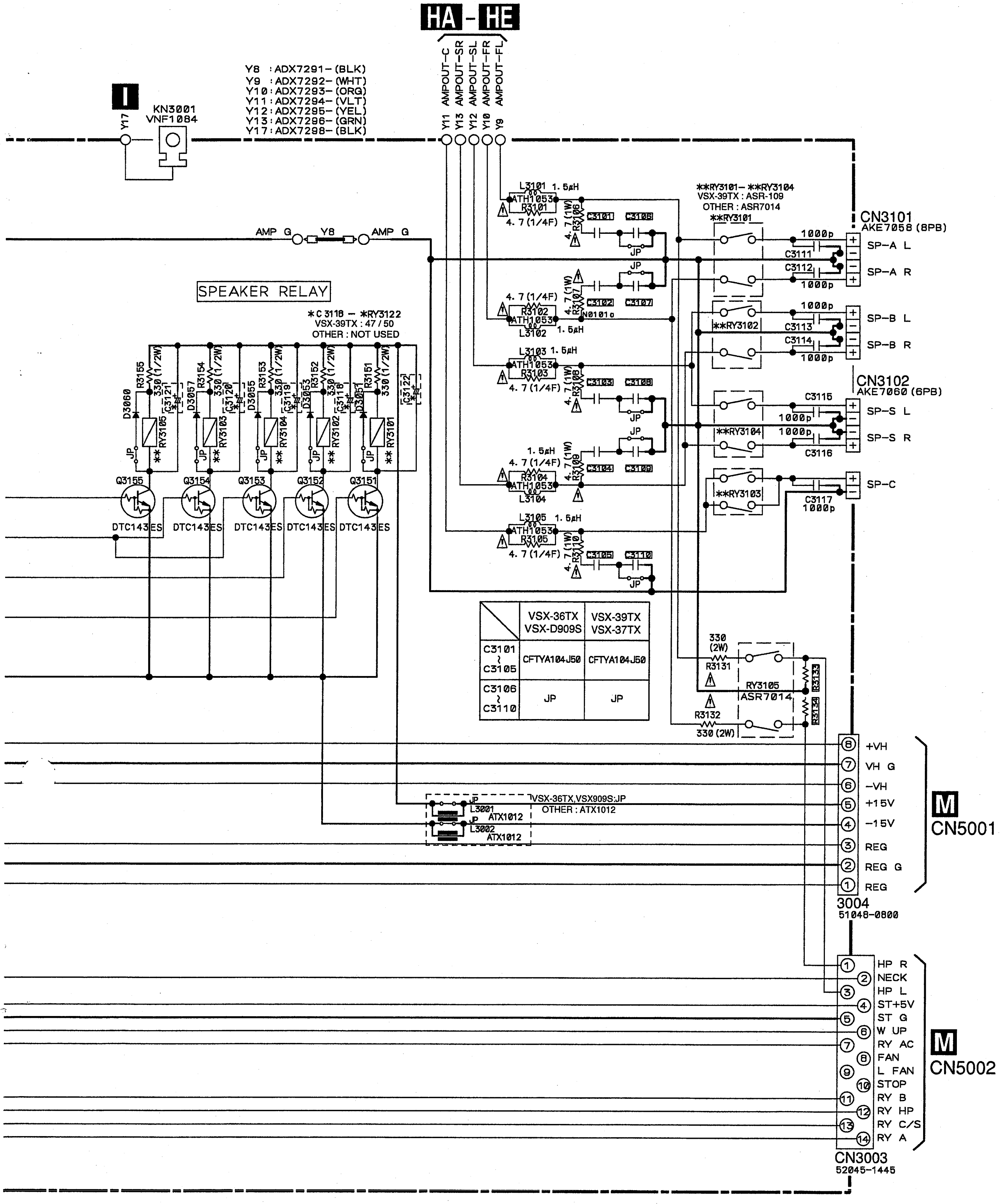
*	VSX-39TX	VSX-36TX VSX-D909S
C3001 C3002	ACH7147 22000/66	ACH7130 22000/50
	VSX-37TX	
C3001 C3002	ACH7088 22000/66	

VSX	-36, 909S	-37TX	VSX-39TX
C4502, C4513 R4502, R4504	×	○	○
C4501, C4503, C4504 C4511, C4512 R4501, R4503, R4511	×	×	○

- NOTE FOR FUSE REPLACEMENT

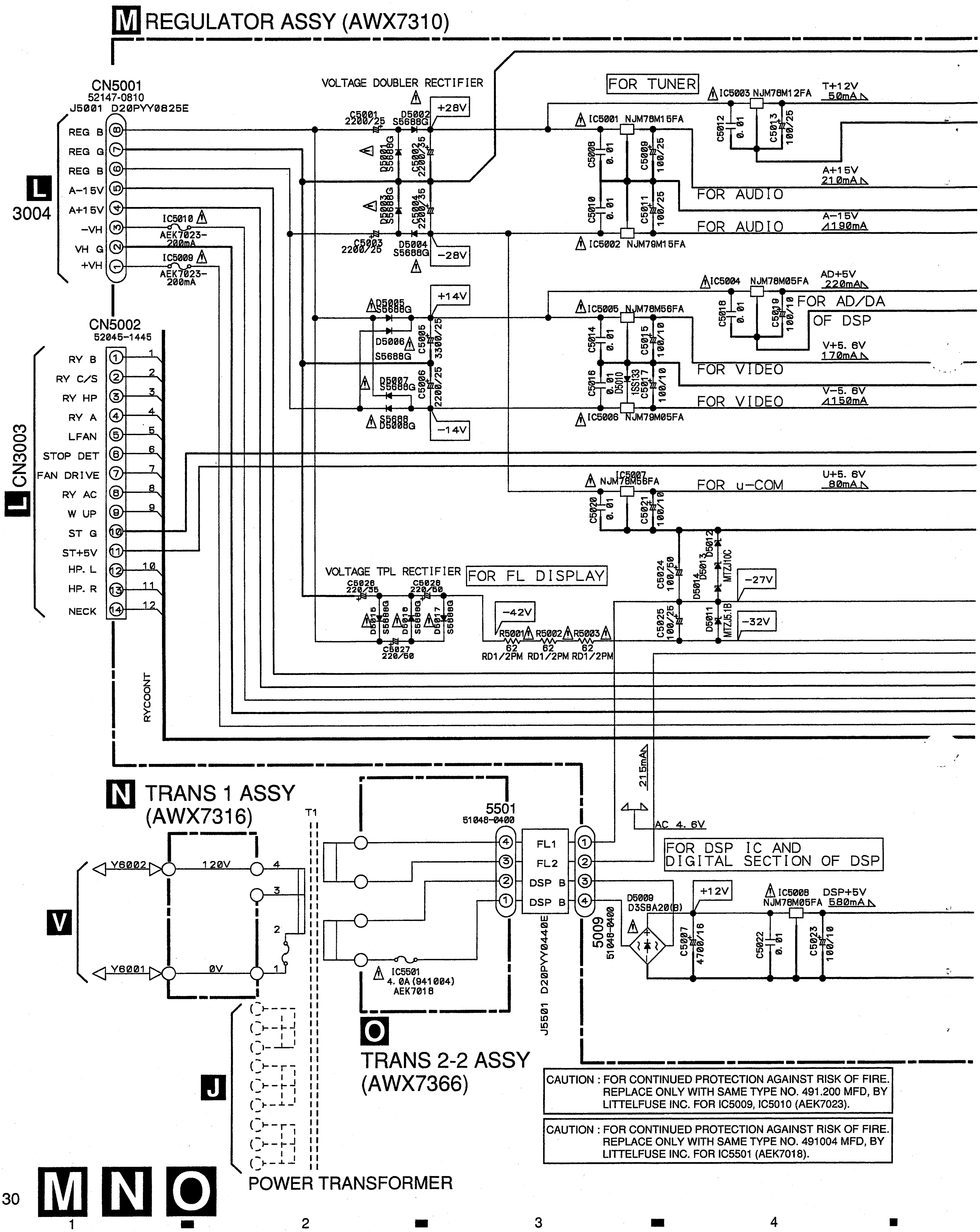
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO. 49102.5 MFD, BY LITTELFUSE INC. FOR IC4501, IC4502 (AEK7014).


HA - HE
Y11 AMPOUT-C
Y13 AMPOUT-SR
Y12 AMPOUT-SL
Y10 AMPOUT-FR
Y9 AMPOUT-FL
Y8 : ADX7291-(BLK)
Y9 : ADX7292-(WHT)
Y10 : ADX7293-(ORG)
Y11 : ADX7294-(VLT)
Y12 : ADX7295-(YEL)
Y13 : ADX7296-(GRN)
Y17 : ADX7298-(BLK)
I
Y17
KN3001
VNF1084
AMP G
Y8
AMP G
SPEAKER RELAY
*C3118 - *RY3122
VSX-39TX : 47 / 50
OTHER : NOT USED
R3155 330 (1/2W)
R3154 330 (1/2W)
R3153 330 (1/2W)
R3152 330 (1/2W)
R3151 330 (1/2W)
C3121 C3120 C3119 C3118 C3122
D3060 D3057 D3055 D3053 D3051
RY3105 RY3103 RY3104 RY3102 RY3101
JP **
Q3155 Q3154 Q3153 Q3152 Q3151
DTC143ES
L3101 1.5μH ATH1053 R3101 4.7 (1/4F)
R3106 4.7 (1W)
C3101 C3106 JP
L3102 1.5μH ATH1053 R3102 4.7 (1/4F)
R3107 4.7 (1W)
C3102 C3107 N0101o
L3103 1.5μH ATH1053 R3103 4.7 (1/4F)
R3108 4.7 (1W)
C3103 C3108
L3104 1.5μH ATH1053 R3104 4.7 (1/4F)
R3109 4.7 (1W)
C3104 C3109
L3105 1.5μH ATH1053 R3105 4.7 (1/4F)
R3110 4.7 (1W)
C3105 C3110
**RY3101- **RY3104
VSX-39TX : ASR-109
OTHER : ASR7014
**RY3101 **RY3102 **RY3104 **RY3103
CN3101
AKE7058 (8PB)
1000p C3111 C3112 1000p
SP-A L
SP-A R
1000p C3113 C3114 1000p
SP-B L
SP-B R
CN3102
AKE7060 (6PB)
C3115 1000p 1000p C3116
SP-S L
SP-S R
SP-C
C3117 1000p
330 (2W) R3131
RY3105 ASR7014
R3133 R3134
R3132 330 (2W)
JP L3001 ATX1012
JP L3002 ATX1012
VSX-36TX,VSX909S:JP
OTHER : ATX1012
⑧ +VH
⑦ VH G
⑥ -VH
⑤ +15V
④ -15V
③ REG
② REG G
① REG
3004
51048-0800
M
CN5001
① HP R
② NECK
③ HP L
④ ST+5V
⑤ ST G
⑥ W UP
⑦ RY AC
⑧ FAN
⑨ L FAN
⑩ STOP
⑪ RY B
⑫ RY HP
⑬ RY C/S
⑭ RY A
CN3003
52045-1445
M
CN5002

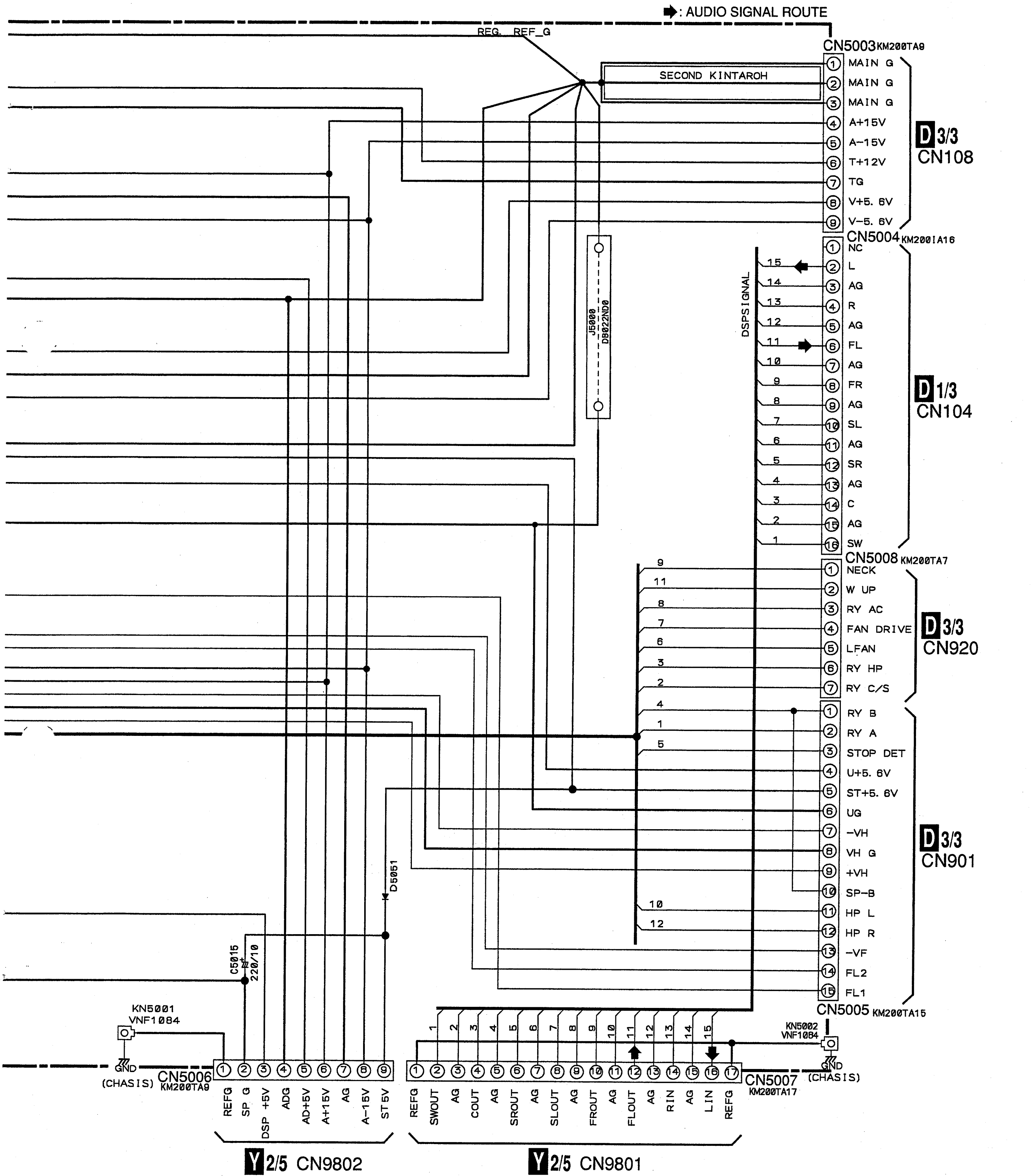
	VSX-36TX VSX-D909S	VSX-39TX VSX-37TX
C3101 ~ C3105	CFTYA104J50	CFTYA104J50
C3106 ~ C3110	JP	JP

3.11 REGULATOR, TRANS 1 and TRANS 2-2 ASSYS


A
B
C
D
M REGULATOR ASSY (AWX7310)
CN5001
52147-0810
J5001 D20PYY0825E
REG B 8
REG G 7
REG B 6
A-15V 5
A+15V 4
-VH 3
VH G 2
+VH 1
L 3004
IC5010
AEK7023-200mA
IC5009
AEK7023-200mA
VOLTAGE DOUBLER RECTIFIER
C5001 2200/25
D5002 S5688G
+28V
D5001 S5688G
C5002 2200/35
D5003 S5688G
C5004 2200/35
C5003 2200/25
D5004 S5688G
-28V
FOR TUNER
IC5003 NJM78M12FA
T+12V 50mA
C5012 0.01
C5013 100/25
IC5001 NJM78M15FA
C5008 0.01
C5009 100/25
C5010 0.01
C5011 100/25
A+15V 210mA
FOR AUDIO
A-15V 190mA
FOR AUDIO
IC5002 NJM79M15FA
IC5004 NJM78M05FA
AD+5V 220mA
C5018 0.01
C5019 100/10
FOR AD/DA OF DSP
+14V
D5005 S5688G
D5006 S5688G
C5005 3300/25
D5007 S5688G
C5006 2200/25
D5008 S5688G
-14V
IC5005 NJM78M56FA
C5014 0.01
C5015 100/10
V+5.6V 170mA
FOR VIDEO
C5016 0.01
D5010 1SS133
C5017 100/10
V-5.6V 150mA
FOR VIDEO
IC5006 NJM79M05FA
CN5002
52045-1445
RY B 1
RY C/S 2
RY HP 3
RY A 4
LFAN 5
STOP DET 6
FAN DRIVE 7
RY AC 8
W UP 9
ST G 10
ST+5V 11
HP. L 12
HP. R 13
NECK 14
L CN3003
IC5007 NJM78M56FA
FOR u-COM
U+5.6V 80mA
C5020 0.01
C5021 100/10
VOLTAGE TPL RECTIFIER
FOR FL DISPLAY
C5026 220/35
C5028 220/50
D5015 S5688G
D5016 S5688G
D5017 S5688G
C5027 220/50
-42V
R5001 62 RD1/2PM
R5002 62 RD1/2PM
R5003 62 RD1/2PM
C5024 100/50
D5012 MTZJ10C
D5013
D5014
-27V
C5025 100/25
D5011 MTZJ5.1B
-32V
RYCOONT
215mA
AC 4.6V
N TRANS 1 ASSY (AWX7316)
T1
5501
51048-0400
FL1
FL2
DSP B
DSP B
FOR DSP IC AND DIGITAL SECTION OF DSP
V
Y6002
120V
Y6001
0V
IC5501
4.0A (941004)
AEK7018
5009
51048-0400
J5501 D20PYV0440E
D5009
D3SBA20(B)
+12V
C5007 4700/16
IC5008 NJM78M05FA
DSP+5V 580mA
C5022 0.01
C5023 100/10
O TRANS 2-2 ASSY (AWX7366)
J
POWER TRANSFORMER

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.200 MFD, BY LITTELFUSE INC. FOR IC5009, IC5010 (AEK7023).

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491004 MFD, BY LITTELFUSE INC. FOR IC5501 (AEK7018).

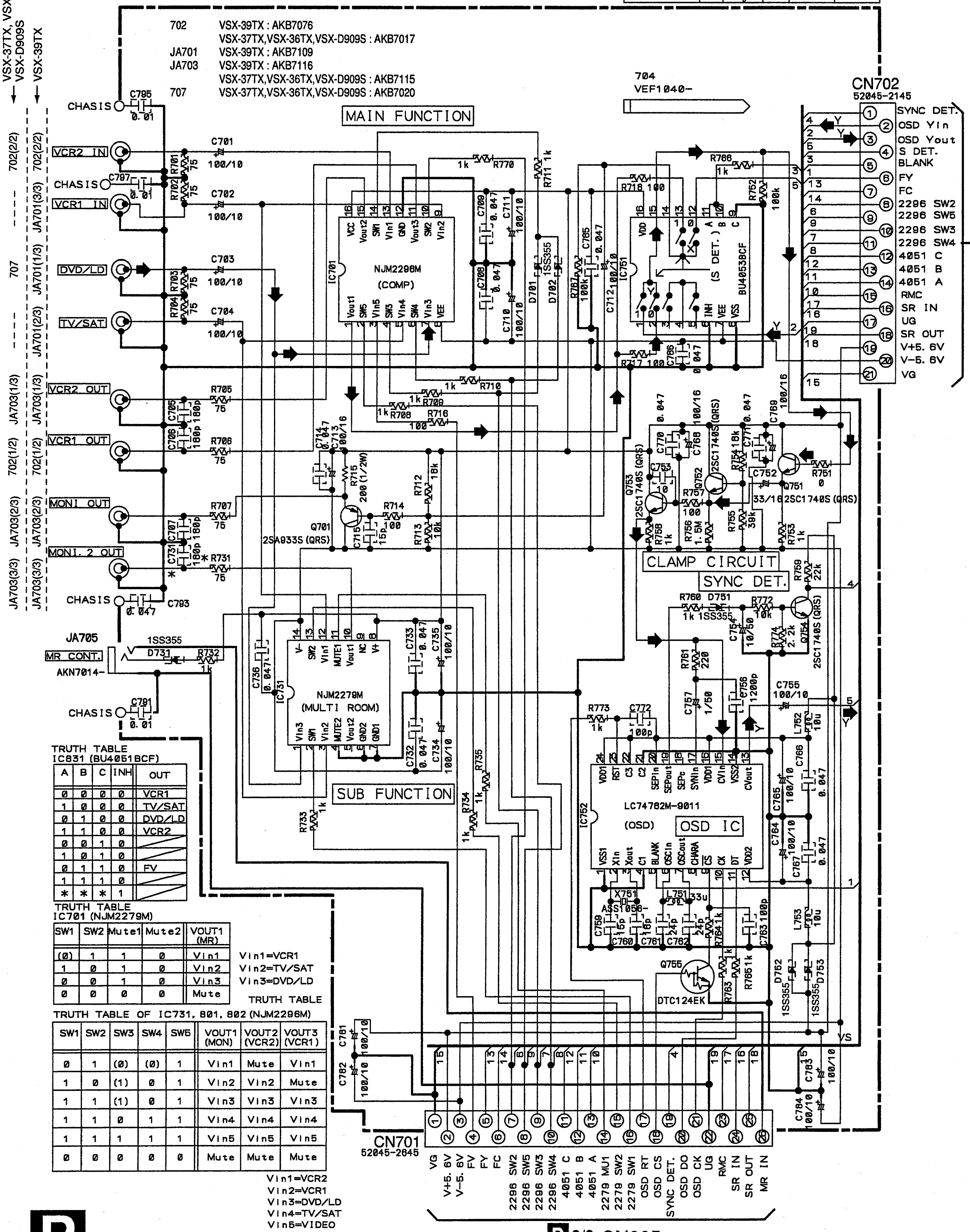

: AUDIO SIGNAL ROUTE
REG. REF_G
SECOND KINTAROH
CN5003 KM200TA9
① MAIN G
② MAIN G
③ MAIN G
④ A+15V
⑤ A−15V
⑥ T+12V
⑦ TG
⑧ V+5. 6V
⑨ V−5. 6V
D 3/3 CN108
CN5004 KM200IA16
① NC
② L
③ AG
④ R
⑤ AG
⑥ FL
⑦ AG
⑧ FR
⑨ AG
⑩ SL
⑪ AG
⑫ SR
⑬ AG
⑭ C
⑮ AG
⑯ SW
D 1/3 CN104
DSPSIGNAL
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
J5000 DB022ND0
CN5008 KM200TA7
① NECK
② W UP
③ RY AC
④ FAN DRIVE
⑤ LFAN
⑥ RY HP
⑦ RY C/S
D 3/3 CN920
9 11 8 7 6 3 2 4 1 5 10 12
① RY B
② RY A
③ STOP DET
④ U+5. 6V
⑤ ST+5. 6V
⑥ UG
⑦ −VH
⑧ VH G
⑨ +VH
⑩ SP−B
⑪ HP L
⑫ HP R
⑬ −VF
⑭ FL2
⑮ FL1
CN5005 KM200TA15
D 3/3 CN901
D5051
C5015 220/10
KN5001 VNF1084
GND (CHASIS)
CN5006 KM200TA9
① REFG
② SP G
③ DSP +5V
④ ADG
⑤ AD+5V
⑥ A+15V
⑦ AG
⑧ A−15V
⑨ ST 5V
Y 2/5 CN9802
KN5002 VNF1084
GND (CHASIS)
CN5007 KM200TA17
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
① REFG
② SWOUT
③ AG
④ COUT
⑤ AG
⑥ SROUT
⑦ AG
⑧ SLOUT
⑨ AG
⑩ FROUT
⑪ AG
⑫ FLOUT
⑬ AG
⑭ RIN
⑮ AG
⑯ LIN
⑰ REFG
Y 2/5 CN9801
A
B
C
D

3.12 VIDEO and S-VIDEO ASSYS

P VIDEO ASSY
(VSX-39TX : AWX7307)
(VSX-37TX, VSX-36TX, VSX-D909S : AWX7394)

TRUTH TABLE OF IC751 (BU4053BCF)

CONDITION	A	B	C	INH	X OUT	Y OUT
S NOT USED	0	0	/	0	1X	1Y
S USED	1	1	/	0	0X	0Y


VSX-37TX, VSX-36TX, VSX-D909S
VSX-39TX
CHASIS
C795 0.01
VCR2 IN
VCR1 IN
DVD/LD
TV/SAT
VCR2 OUT
VCR1 OUT
MONI OUT
MONI. 2 OUT
702(2/2)
JA701(3/3)
707
JA701(1/3)
JA701(2/3)
JA703(1/3)
702(1/2)
JA703(2/3)
JA703(3/3)
C793 0.047
JA705
MR CONT.
AKN7014-
1SS355 D731
R732 1k
C791 0.01
MAIN FUNCTION
IC701
NJM2296M
(COMP)
SUB FUNCTION
IC731
NJM2279M
(MULTI ROOM)
Q701 2SA933S (QRS)
704
VEF1040-
IC751
(S DET.)
BU4053BCF
CLAMP CIRCUIT
SYNC DET.
Q751 2SC1740S (QRS)
Q752 2SC1740S (QRS)
Q753 2SC1740S (QRS)
Q754 2SC1740S (QRS)
D751 1SS355
IC752
LC74782M-9011
(OSD)
OSD IC
X751 ASS1056-
L751 33u
Q755 DTC124EK
D752 1SS355
D753 1SS355
CN702
52045-2145
① SYNC DET.
② OSD YIn
③ OSD Yout
④ S DET.
⑤ BLANK
⑥ FY
⑦ FC
⑧ 2296 SW2
⑨ 2296 SW5
⑩ 2296 SW3
⑪ 2296 SW4
⑫ 4051 C
⑬ 4051 B
⑭ 4051 A
⑮ RMC
⑯ SR IN
⑰ UG
⑱ SR OUT
⑲ V+5.6V
⑳ V-5.6V
㉑ VG
CN701
52045-2645
① VG
② V+5.6V
③ V-5.6V
④ FV
⑤ FY
⑥ FC
⑦ 2296 SW2
⑧ 2296 SW5
⑨ 2296 SW3
⑩ 2296 SW4
⑪ 4051 C
⑫ 4051 B
⑬ 4051 A
⑭ 2279 MU1
⑮ 2279 SW2
⑯ 2279 SW1
⑰ OSD RT
⑱ OSD CS
⑲ SYNC DET.
⑳ OSD DO
㉑ OSD CK
㉒ UG
㉓ RMC
㉔ SR IN
㉕ SR OUT
㉖ MR IN
D 3/3 CN905

702 VSX-39TX : AKB7076
VSX-37TX,VSX-36TX,VSX-D909S : AKB7017
JA701 VSX-39TX : AKB7109
JA703 VSX-39TX : AKB7116
VSX-37TX,VSX-36TX,VSX-D909S : AKB7115
707 VSX-37TX,VSX-36TX,VSX-D909S : AKB7020

TRUTH TABLE
IC831 (BU4051BCF)

A	B	C	INH	OUT
0	0	0	0	VCR1
1	0	0	0	TV/SAT
0	1	0	0	DVD/LD
1	1	0	0	VCR2
0	0	1	0	/
1	0	1	0	/
0	1	1	0	FV
1	1	1	0	/
*	*	*	1	/

TRUTH TABLE
IC701 (NJM2279M)

SW1	SW2	Mute1	Mute2	VOUT1 (MR)
(0)	1	1	0	Vin1
1	0	1	0	Vin2
0	0	1	0	Vin3
0	0	0	0	Mute

Vin1=VCR1
Vin2=TV/SAT
Vin3=DVD/LD

TRUTH TABLE

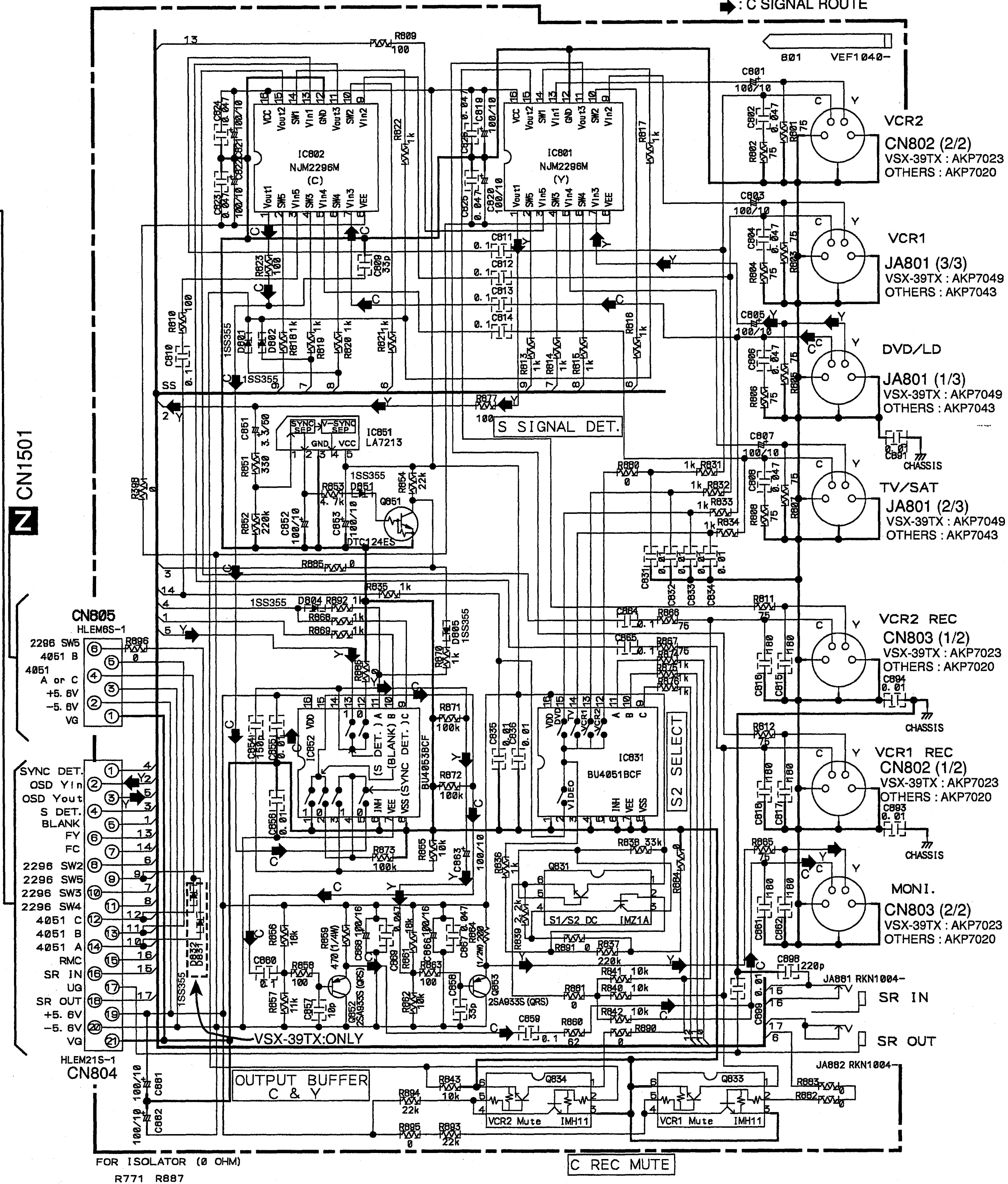
TRUTH TABLE OF IC731, 801, 802 (NJM2296M)

SW1	SW2	SW3	SW4	SW5	VOUT1 (MON)	VOUT2 (VCR2)	VOUT3 (VCR1)
0	1	(0)	(0)	1	Vin1	Mute	Vin1
1	0	(1)	0	1	Vin2	Vin2	Mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	0	0	0	Mute	Mute	Mute

Vin1=VCR2
Vin2=VCR1
Vin3=DVD/LD
Vin4=TV/SAT
Vin5=VIDEO

Q S-VIDEO ASSY
(VSX-39TX : AWX7678)
(OTHERS : AWX7679)

➡: AUDIO SIGNAL ROUTE
Y➡: Y SIGNAL ROUTE
C➡: C SIGNAL ROUTE



801 VEF1040-
VCR2
CN802 (2/2)
VSX-39TX : AKP7023
OTHERS : AKP7020
VCR1
JA801 (3/3)
VSX-39TX : AKP7049
OTHERS : AKP7043
DVD/LD
JA801 (1/3)
VSX-39TX : AKP7049
OTHERS : AKP7043
TV/SAT
JA801 (2/3)
VSX-39TX : AKP7049
OTHERS : AKP7043
VCR2 REC
CN803 (1/2)
VSX-39TX : AKP7023
OTHERS : AKP7020
VCR1 REC
CN802 (1/2)
VSX-39TX : AKP7023
OTHERS : AKP7020
MONI.
CN803 (2/2)
VSX-39TX : AKP7023
OTHERS : AKP7020
CHASSIS
IC802 NJM2296M (C)
IC801 NJM2296M (Y)
IC851 LA7213
SYNC SEP
V-SYNC SEP
Q851 DTC124ES
S SIGNAL DET.
IC852 BU4053BCF
(S DET.) A
(BLANK) B
(SYNC DET.) C
IC831 BU4051BCF
S2 SELECT
Q831 IMZ1A
S1/S2 DC
Q852 2SA933S (QRS)
Q853 2SA933S (QRS)
OUTPUT BUFFER C & Y
Q834 VCR2 Mute IMH11
Q833 VCR1 Mute IMH11
C REC MUTE
JA881 RKN1004-
SR IN
SR OUT
JA882 RKN1004-
VSX-39TX:ONLY
CN1501
Z
CN805
HLEM6S-1
2296 SW5
4051 B
4051 A or C
+5.6V
-5.6V
VG
SYNC DET.
OSD Yin
OSD Yout
S DET.
BLANK
FY
FC
2296 SW2
2296 SW5
2296 SW3
2296 SW4
4051 C
4051 B
4051 A
RMC
SR IN
UG
SR OUT
+5.6V
-5.6V
VG
HLEM21S-1
CN804

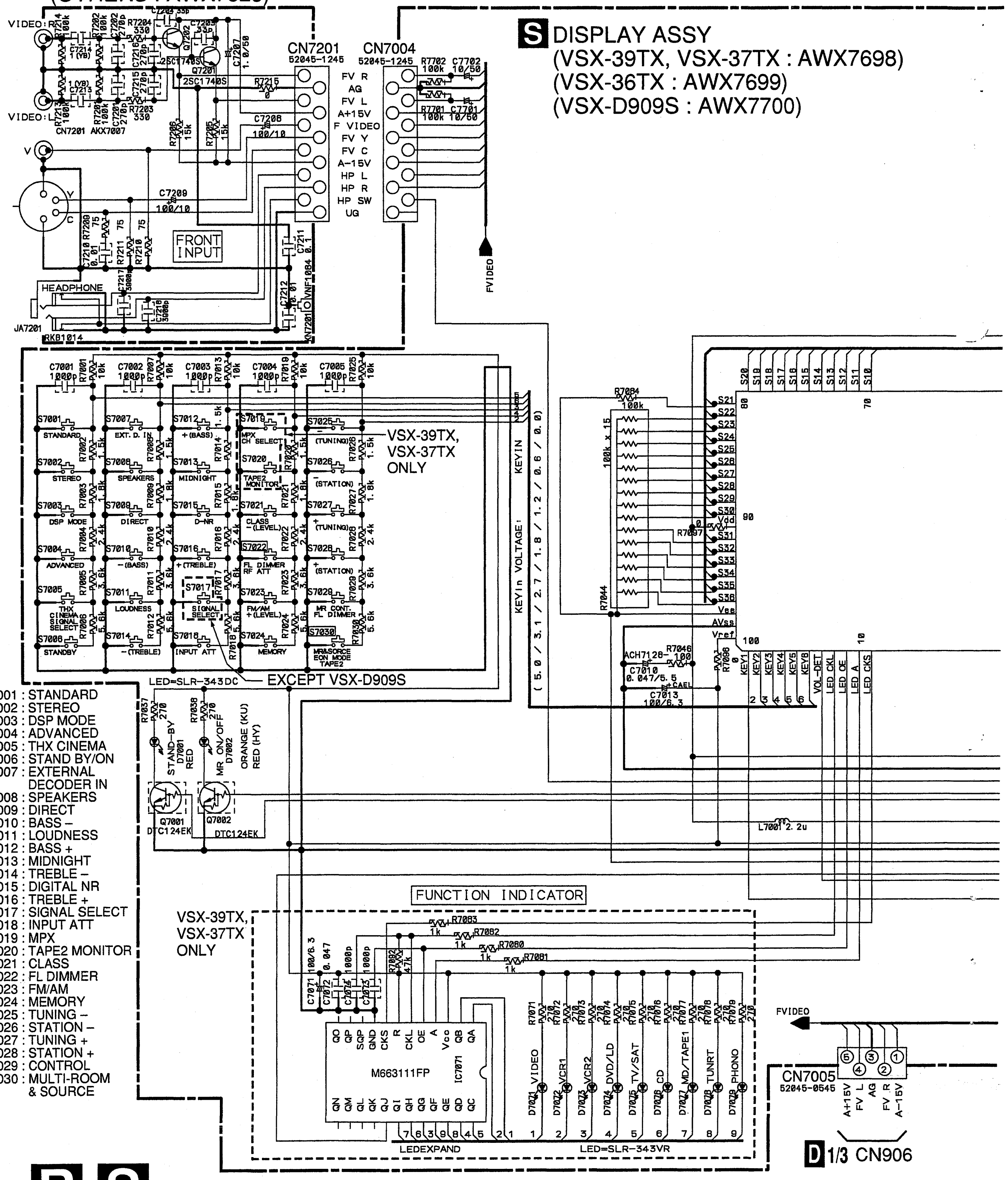
FOR ISOLATOR (0 OHM)

R771 R887
R775 R888
R776 R889
R777
R778

3.13 H. PHONE/F. VIDEO, DISPLAY, ROTARY ENCODER and VOLUME ASSYS

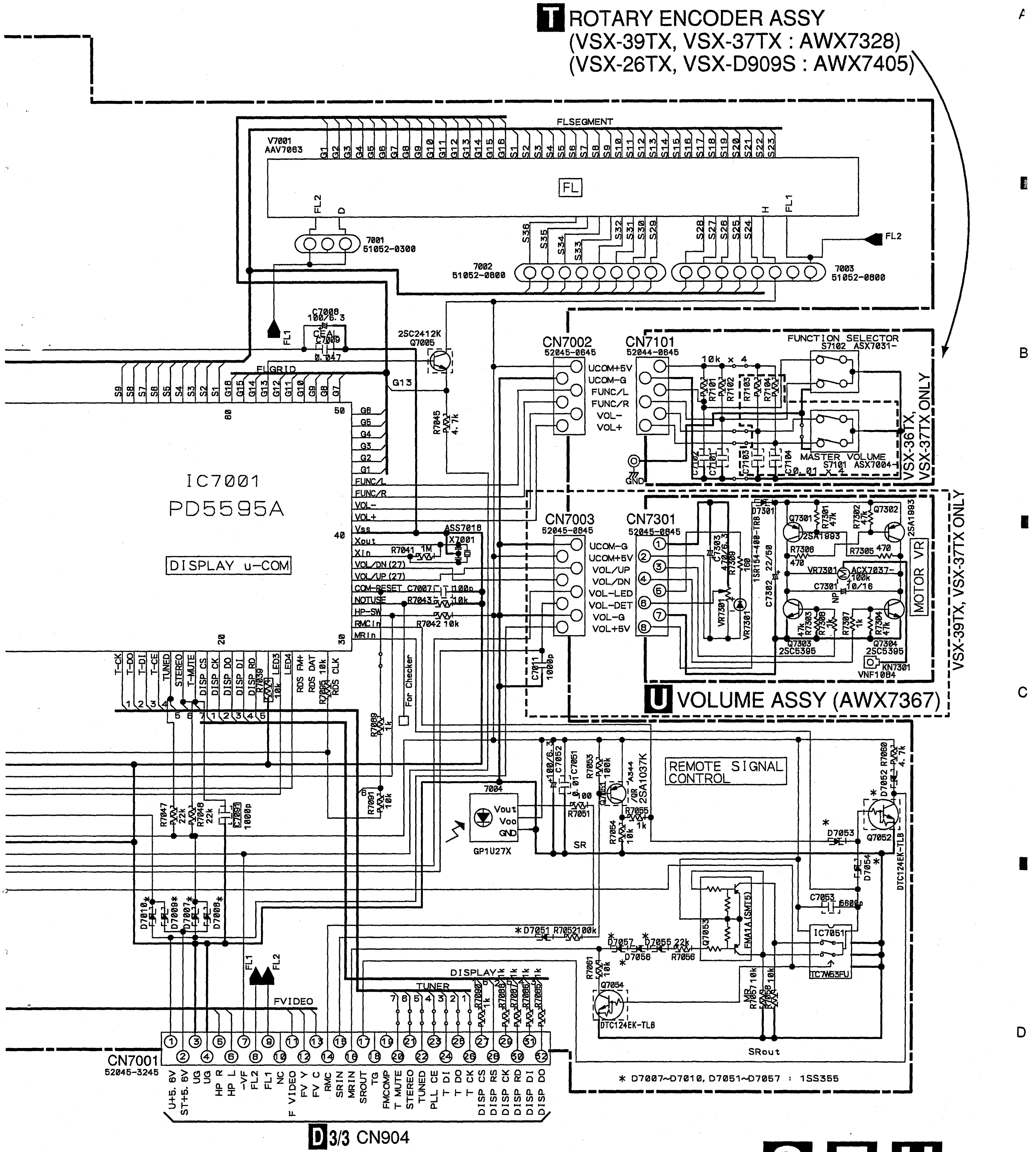
R H. PHONE/F. VIDEO ASSY
(VSX-39TX,VSX-37TX : AWX7342)
(OTHERS : AWX7528)

S DISPLAY ASSY
(VSX-39TX, VSX-37TX : AWX7698)
(VSX-36TX : AWX7699)
(VSX-D909S : AWX7700)



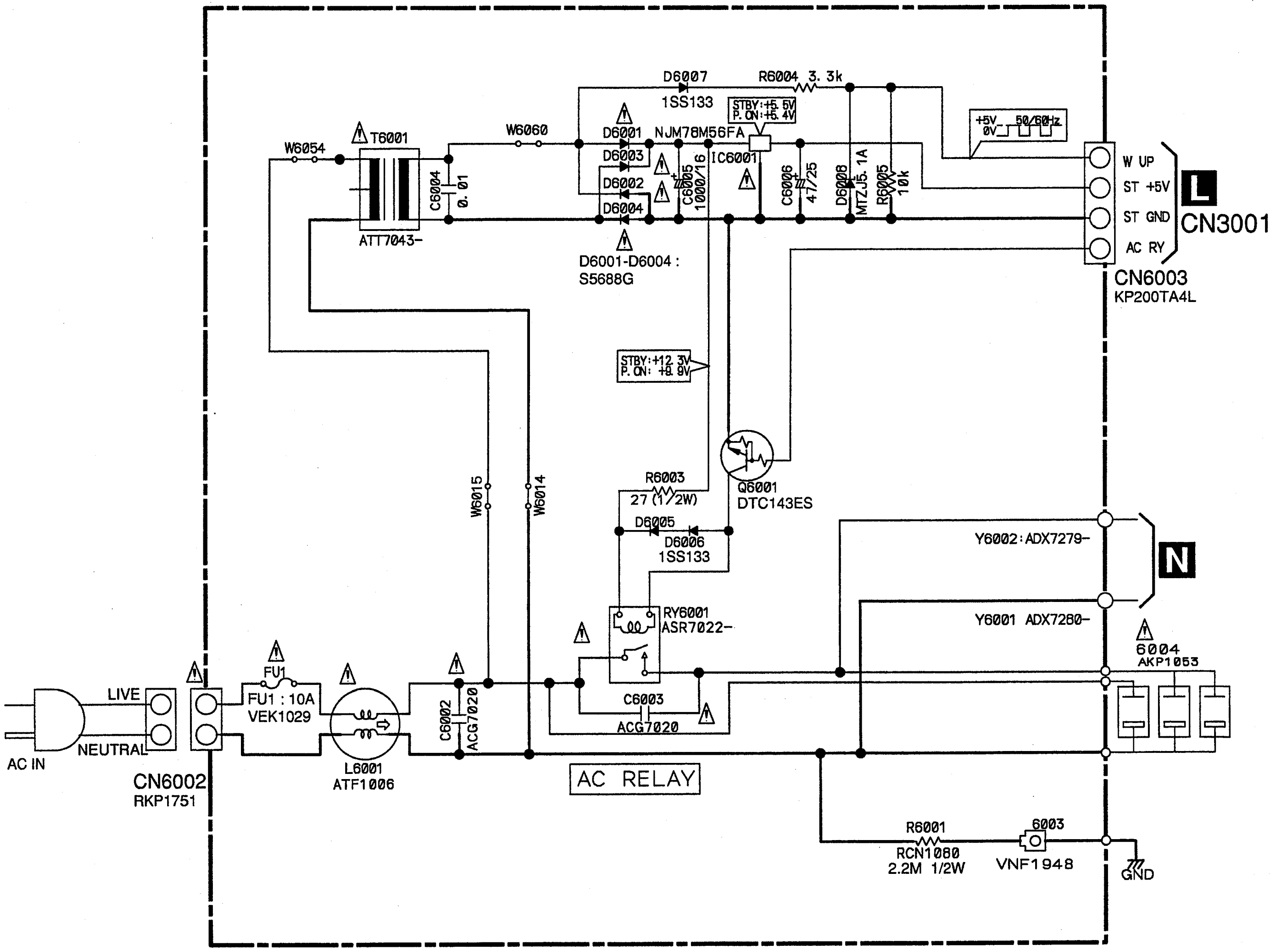
VIDEO:R
VIDEO:L
CN7201 AKX7007
Q7202 2SC1740S
Q7201 2SC1740S
CN7201 52045-1245
CN7004 52045-1245
FV R
AG
FV L
A+15V
F VIDEO
FV Y
FV C
A-15V
HP L
HP R
HP SW
UG
FRONT INPUT
HEADPHONE
JA7201 RKB1014
FVIDEO
KEYIN
KEYIn VOLTAGE : (5.0 / 3.1 / 2.7 / 1.8 / 1.2 / 0.6 / 0.0)
VSX-39TX, VSX-37TX ONLY
EXCEPT VSX-D909S
LED=SLR-343DC
STAND-BY D7001 RED
MR ON/OFF D7002 ORANGE (KU) RED (HY)
Q7001 DTC124EK
Q7002 DTC124EK
100k x 15
L7001 2.2u
FUNCTION INDICATOR
VSX-39TX, VSX-37TX ONLY
M663111FP IC7071
VIDEO
VCR1
VCR2
DVD/LD
TV/SAT
CD
MD/TAPE1
TUNRT
PHONO
LEDEXPAND
LED=SLR-343VR
CN7005 52045-0545
A+15V
FV L
AG
FV R
A-15V
D 1/3 CN906

S7001 : STANDARD
S7002 : STEREO
S7003 : DSP MODE
S7004 : ADVANCED
S7005 : THX CINEMA
S7006 : STAND BY/ON
S7007 : EXTERNAL DECODER IN
S7008 : SPEAKERS
S7009 : DIRECT
S7010 : BASS –
S7011 : LOUDNESS
S7012 : BASS +
S7013 : MIDNIGHT
S7014 : TREBLE –
S7015 : DIGITAL NR
S7016 : TREBLE +
S7017 : SIGNAL SELECT
S7018 : INPUT ATT
S7019 : MPX
S7020 : TAPE2 MONITOR
S7021 : CLASS
S7022 : FL DIMMER
S7023 : FM/AM
S7024 : MEMORY
S7025 : TUNING –
S7026 : STATION –
S7027 : TUNING +
S7028 : STATION +
S7029 : CONTROL
S7030 : MULTI-ROOM & SOURCE


T ROTARY ENCODER ASSY
(VSX-39TX, VSX-37TX : AWX7328)
(VSX-26TX, VSX-D909S : AWX7405)
FLSEGMENT
V7001
AAV7063
FL
FL2
FL1
7001
51052-0300
7002
51052-0800
7003
51052-0800
C7008
100/6.3
CEAL
C7009
0.047
2SC2412K
Q7005
FLGRID
G13
R7045
4.7k
IC7001
PD5595A
DISPLAY u-COM
FUNC/L
FUNC/R
VOL-
VOL+
Vss
Xout
Xin
R7041 1M
ASS7018
X7001
VOL/DN (27)
VOL/UP (27)
COM-RESET C7007 100p
NOTUSE R7043 10k
HP-SW
RMCin R7042 10k
MRin
CN7002
52045-0645
UCOM+5V
UCOM-G
FUNC/L
FUNC/R
VOL-
VOL+
CN7101
52044-0645
10k x 4
R7101
R7102
R7103
R7104
FUNCTION SELECTOR
S7102 ASX7031-
MASTER VOLUME
S7101 ASX7004-
C7101
C7102
C7103
C7104
0.01 x 4
GND
VSX-36TX, VSX-37TX ONLY
CN7003
52045-0845
UCOM-G
UCOM+5V
VOL/UP
VOL/DN
VOL-LED
VOL-DET
VOL-G
VOL+5V
CN7301
52045-0845
C7303
4.7/6.3
R7309
180
VR7301
1SR154-400-TRB
D7301
C7302 22/50
Q7301
R7301 47k
R7302 47k
Q7302
2SA1993
R7306 470
R7305 470
VR7301
ACX7037-
100k
C7301 10/16
NP
MOTOR VR
Q7303
2SC5395
R7303 47k
R7308 1k
R7307 1k
R7304 47k
Q7304
2SC5395
KN7301
VNF1084
VSX-39TX, VSX-37TX ONLY
U VOLUME ASSY (AWX7367)
C7011
1000p
T-CK
T-DO
T-DI
T-CE
TUNED
STEREO
T-MUTE
DISP CS
DISP CK
DISP DO
DISP DI
DISP RD
LED3
LED4
RDS FM+
RDS DAT
RDS CLK
R7039 10k
R7035 10k
For Checker
R7089 1k
R7091 10k
R7047 22k
R7048 22k
C7091 1000p
D7010
D7009
D7007
D7008
7004
Vout
Vcc
GND
GP1U27X
C7052 100/6.3
C7051 0.01
R7053 100k
R7051 100
Q7051 2SA1037K
R7055 1k
R7054 10k
SR
REMOTE SIGNAL CONTROL
R7060 4.7k
D7052
Q7052
DTC124EK-TLB
D7053
D7054
C7053 6800p
IC7051
TC7W53FU
Q7053
FMA1A (SMT5)
D7051 R7052 100k
D7057
D7055 22k
D7056
R7056
R7061 10k
Q7054
DTC124EK-TLB
MR
R7057 10k
R7058 10k
SRout
DISPLAY
TUNER
R7080 1k
R7088 1k
R7087 1k
R7086 1k
R7085 1k
FVIDEO
FL1
FL2
CN7001
52045-3245
U+5.6V
ST+5.6V
UG
UG
HP R
HP L
-VF
FL2
FL1
NC
F VIDEO
FV Y
FV C
RMC
SRIN
MRIN
SROUT
TG
FMCOMP
T MUTE
STEREO
TUNED
PLL CE
T DI
T DO
T CK
DISP CS
DISP RS
DISP CK
DISP RD
DISP DI
DISP DO
D 3/3 CN904
* D7007~D7010, D7051~D7057 : 1SS355

3.14 PRIMARY ASSY

V PRIMARY ASSY (AWX7311)


D6007
1SS133
R6004 3. 3k
STBY:+5. 5V
P. ON:+5. 4V
+5V
0V
50/60Hz
W6054
T6001
ATT7043-
W6060
C6004
0. 01
D6001
D6003
D6002
D6004
NJM78M56FA
IC6001
C6005
1000/16
C6006
47/25
D6008
MTZJ5. 1A
R6005
10k
D6001-D6004 :
S5688G
W UP
ST +5V
ST GND
AC RY
L
CN3001
CN6003
KP200TA4L
STBY:+12. 3V
P. ON: +9. 9V
W6015
W6014
R6003
27 (1/2W)
Q6001
DTC143ES
D6005
D6006
1SS133
Y6002:ADX7279-
Y6001 ADX7280-
N
RY6001
ASR7022-
6004
AKP1053
LIVE
NEUTRAL
AC IN
CN6002
RKP1751
FU1
FU1 : 10A
VEK1029
L6001
ATF1006
C6002
ACG7020
C6003
ACG7020
AC RELAY
R6001
RCN1080
2.2M 1/2W
6003
VNF1948
GND

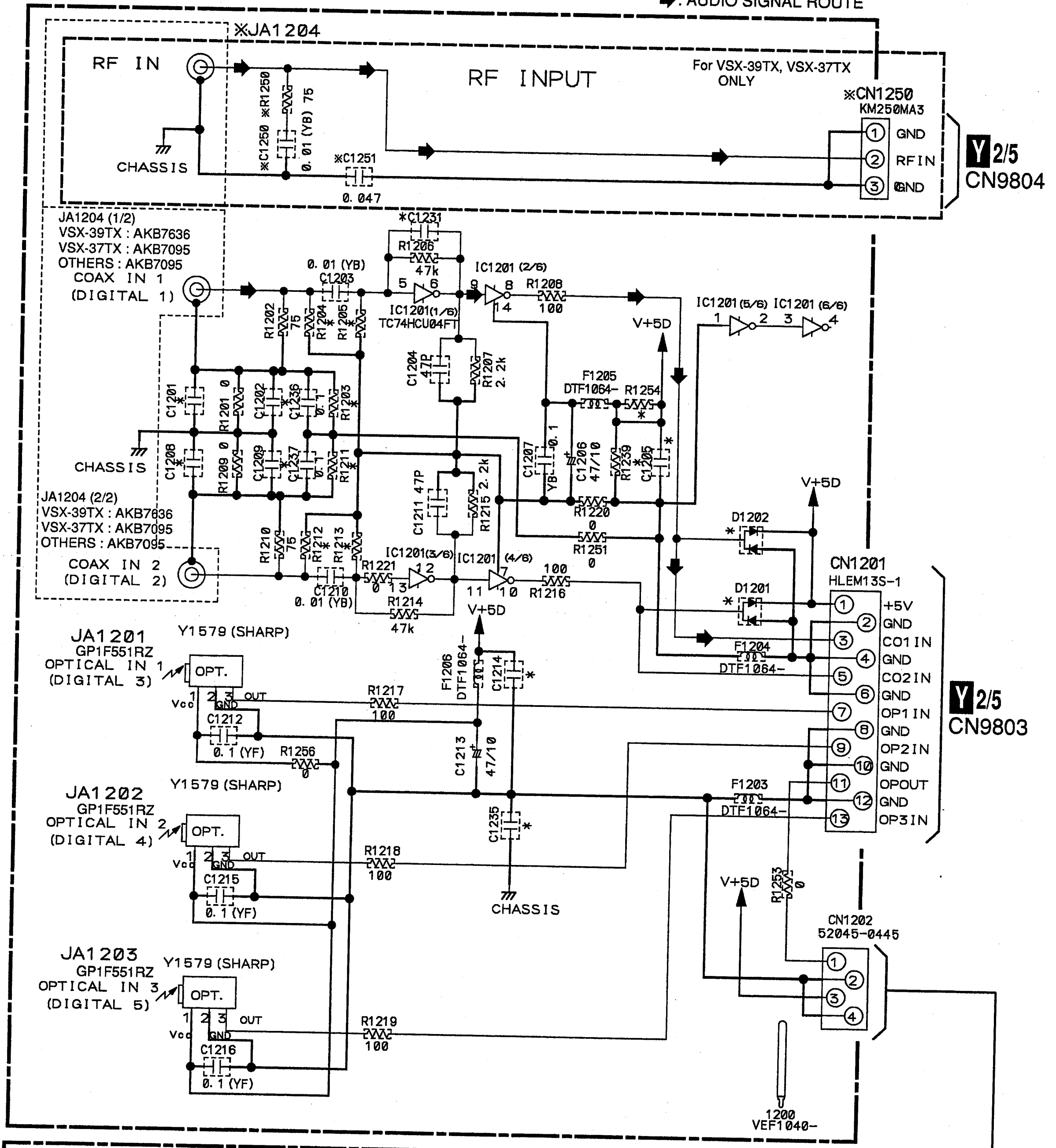
- NOTE FOR FUSE REPLACEMENT

CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

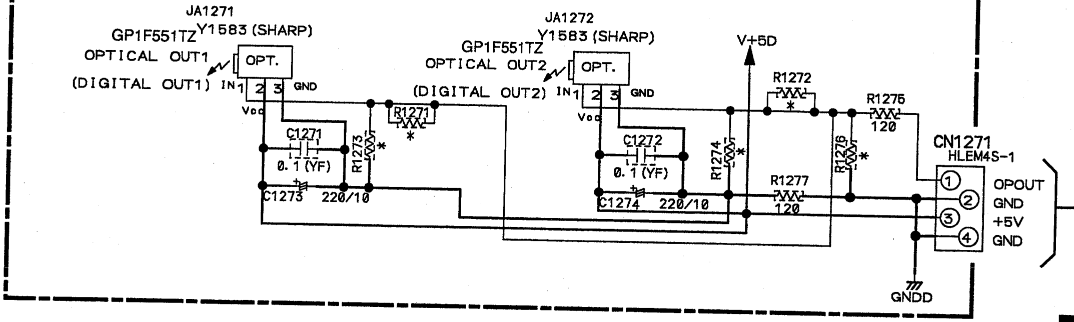
3.15 RF/DIGITAL INPUT and OPT OUT ASSYS

W RF / DIGITAL INPUT ASSY
(VSX-39TX : AWX7637) (VSX-37TX : AWX7638)
(VSX-36TX, VSX-D909S : AWX7642)

➧: AUDIO SIGNAL ROUTE

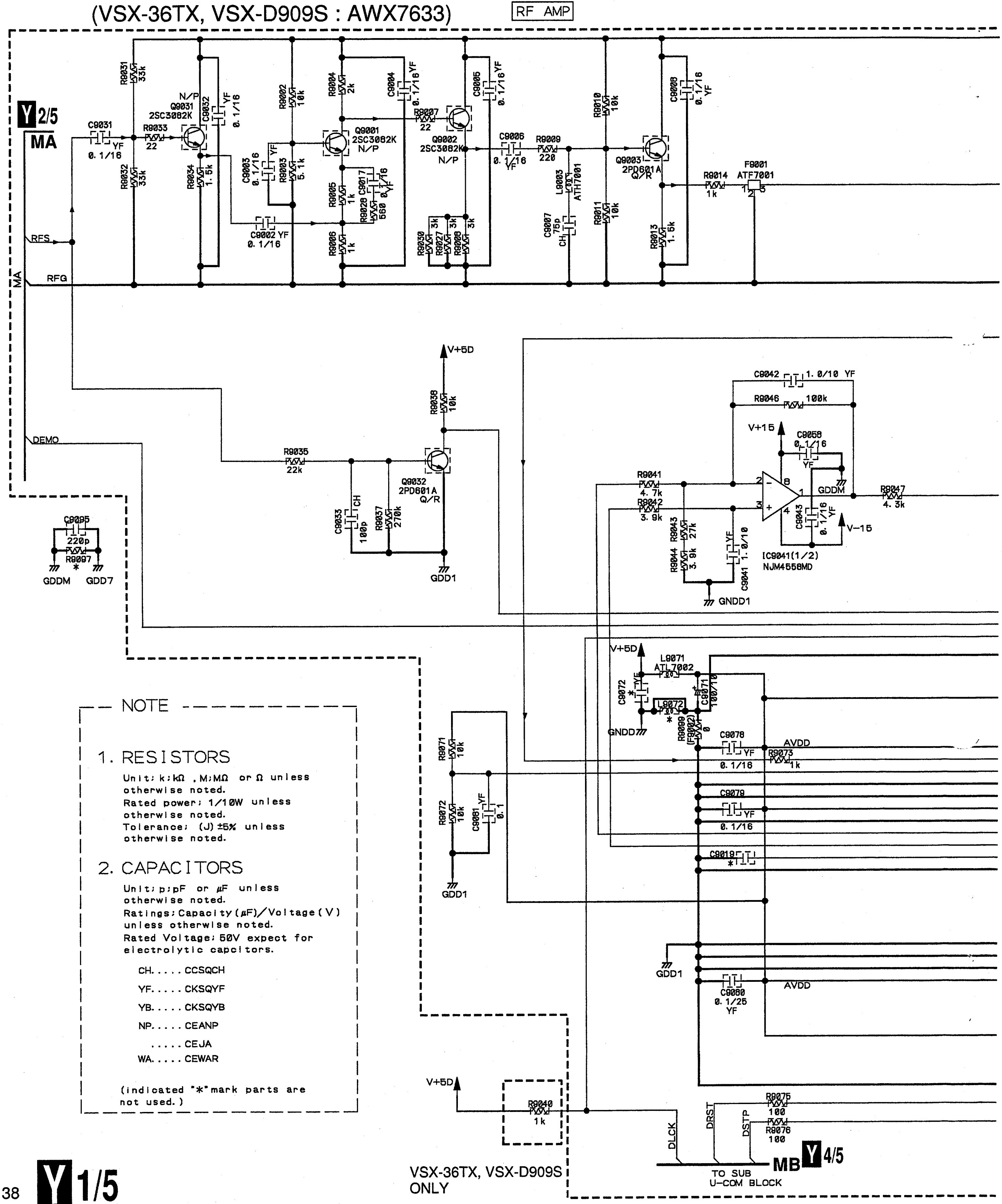

※JA1204
RF IN
RF INPUT
For VSX-39TX, VSX-37TX ONLY
※CN1250
KM250MA3
GND
RFIN
GND
Y 2/5
CN9804
CHASSIS
※C1250
※R1250
0.01 (YB) 75
※C1251
0.047
JA1204 (1/2)
VSX-39TX : AKB7636
VSX-37TX : AKB7095
OTHERS : AKB7095
COAX IN 1
(DIGITAL 1)
※C1231
R1206
47k
0.01 (YB)
C1203
IC1201 (2/6)
R1208
100
IC1201(1/6)
TC74HCU04FT
IC1201 (5/6) IC1201 (6/6)
V+5D
R1202 75
R1204
R1205
C1204 47P
R1207 2.2k
F1205
DTF1064-
R1254
C1201
R1201 0
C1202
C1236
R1203
C1207
YB-0.1
C1206 47/10
R1259
C1205
CHASSIS
C1208
R1209 0
C1209
C1237
R1211
C1211 47P
R1215 2.2k
R1220 0
R1251 0
D1202
D1201
JA1204 (2/2)
VSX-39TX : AKB7636
VSX-37TX : AKB7095
OTHERS : AKB7095
COAX IN 2
(DIGITAL 2)
R1210 75
R1212
R1213
IC1201(3/6)
IC1201 (4/6)
R1221 0
C1210
0.01 (YB)
R1214
47k
R1216
100
V+5D
CN1201
HLEM13S-1
+5V
GND
CO1 IN
GND
CO2 IN
GND
OP1 IN
GND
OP2 IN
GND
OPOUT
GND
OP3 IN
Y 2/5
CN9803
F1204
DTF1064-
JA1201
GP1F551RZ
Y1579 (SHARP)
OPTICAL IN 1
(DIGITAL 3)
OPT.
Vcc GND OUT
C1212
0.1 (YF)
R1256 0
R1217
100
F1206
DTF1064-
C1214
C1213 47/10
JA1202
GP1F551RZ
Y1579 (SHARP)
OPTICAL IN 2
(DIGITAL 4)
C1215
0.1 (YF)
R1218
100
C1235
CHASSIS
F1203
DTF1064-
V+5D
R1253 0
CN1202
52045-0445
JA1203
GP1F551RZ
Y1579 (SHARP)
OPTICAL IN 3
(DIGITAL 5)
C1216
0.1 (YF)
R1219
100
1200
VEF1040-

X OPT OUT ASSY (AWX7643)


JA1271
GP1F551TZ
Y1583 (SHARP)
OPTICAL OUT1
(DIGITAL OUT1)
OPT.
IN Vcc GND
C1271
0.1 (YF)
R1273
C1273 220/10
R1271
JA1272
GP1F551TZ
Y1583 (SHARP)
OPTICAL OUT2
(DIGITAL OUT2)
C1272
0.1 (YF)
C1274 220/10
R1274
V+5D
R1272
R1275
120
R1276
R1277
120
CN1271
HLEM4S-1
OPOUT
GND
+5V
GND
GNDD

3.16 DSP ASSY (1/5)

Y 1/5 DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)


RF AMP
Y 2/5
MA
RFS
RFG
DEMO
C9031 0.1/16 YF
R9033 22
R9031 33k
R9032 33k
N/P Q9031 2SC3082K
C9032 0.1/16 YF
R9034 1.5k
R9002 10k
C9003 0.1/16 YF
R9003 5.1k
C9002 YF 0.1/16
R9004 2k
Q9001 2SC3082K N/P
R9005 1k
C9017 0.1/16 YF
R9028 560
R9006 1k
C9004 0.1/16 YF
R9007 22
Q9002 2SC3082K N/P
C9005 0.1/16 YF
R9030 3k
R9027 3k
R9008 3k
C9006 0.1/16 YF
R9009 220
L9003 ATH7001
C9007 75p CH
R9010 10k
R9011 10k
C9008 0.1/16 YF
Q9003 2PD601A Q/R
R9013 1.5k
R9014 1k
F9001 ATF7001
1 2 3
V+5D
R9038 10k
R9035 22k
Q9032 2PD601A Q/R
C9033 100p CH
R9037 270k
GDD1
C9095 220p
R9097 *
GDDM GDD7
C9042 1.0/10 YF
R9046 100k
V+15
C9058 0.1/16 YF
R9041 4.7k
R9042 3.9k
R9043 27k
R9044 3.9k
C9041 1.0/10 YF
GNDD1
GDDM
C9043 0.1/16 YF
V-15
IC9041(1/2) NJM4556MD
R9047 4.3k
V+5D
L9071 ATL7002
C9072 * YF
L9072 *
C9071 100/10
R9099 (F9002) 0
GNDD
C9078 0.1/16 YF
AVDD
R9073 1k
C9079 0.1/16 YF
C9019 *
R9071 10k
R9072 10k
C9081 0.1 YF
GDD1
GDD1
C9080 0.1/25 YF
AVDD
V+5D
R9040 1k
VSX-36TX, VSX-D909S ONLY
DLCK
DRST
DSTP
R9075 100
R9076 100
TO SUB U-COM BLOCK
MB Y 4/5

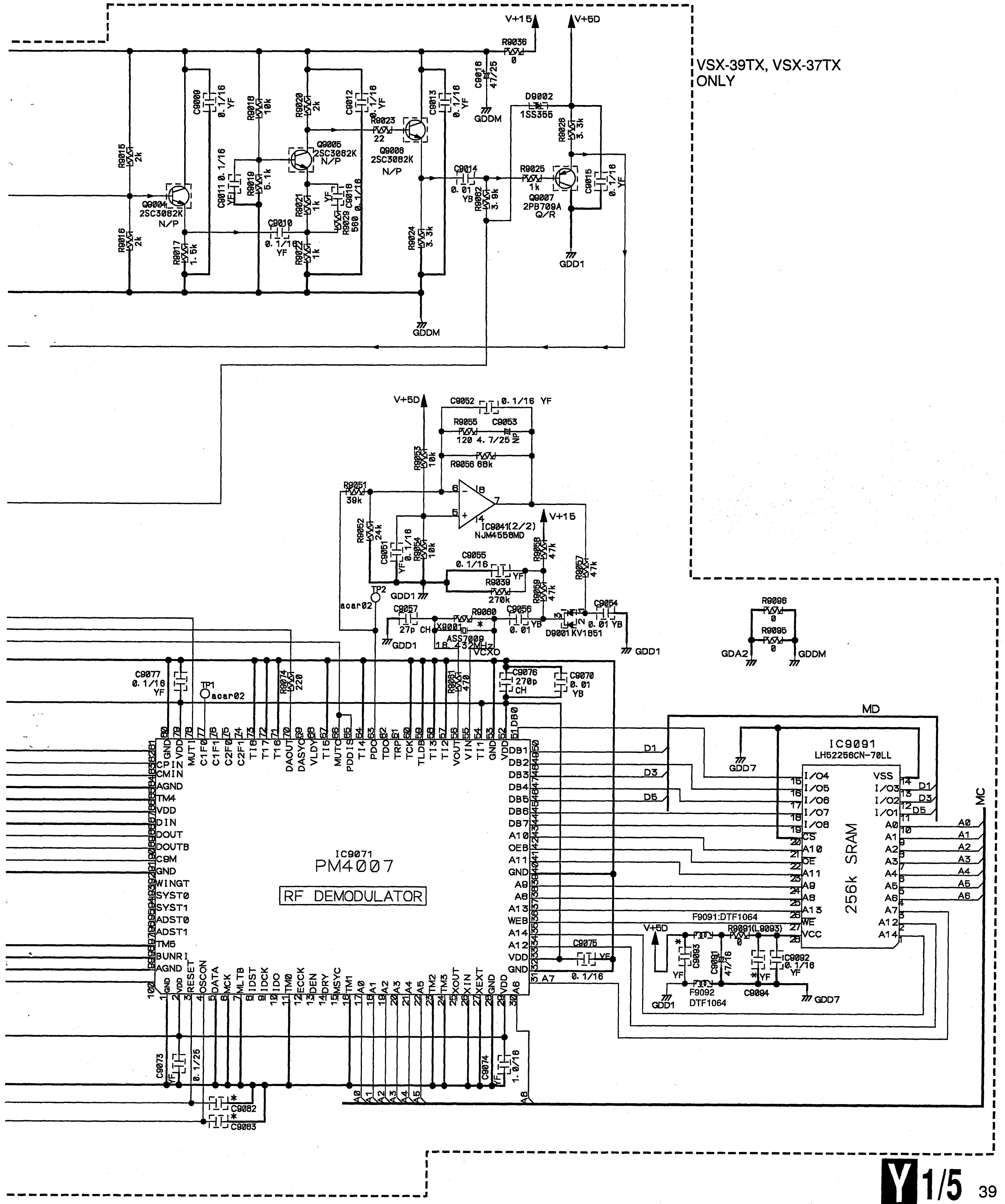
NOTE

1. RESISTORS
Unit: k:kΩ, M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

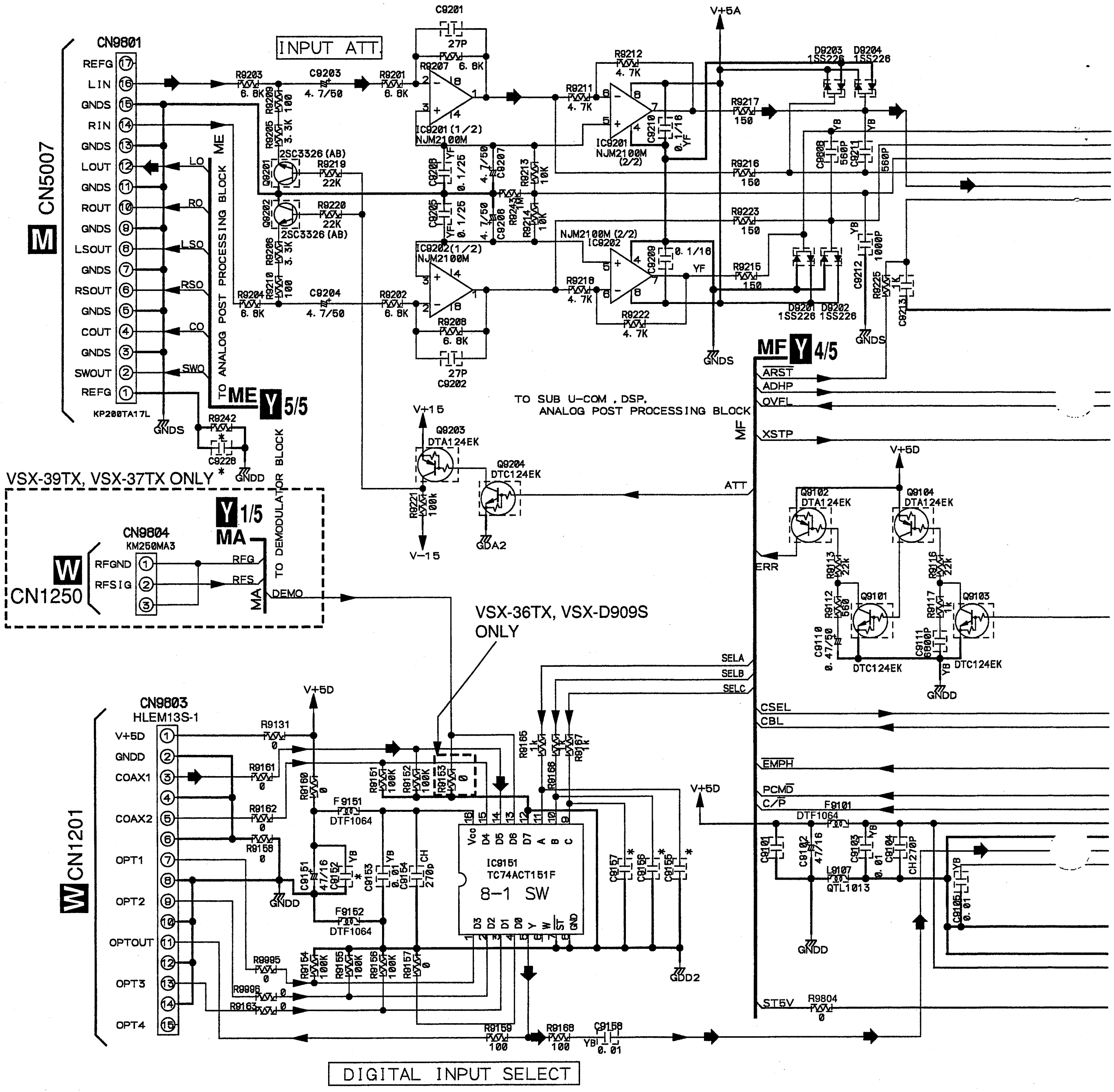
2. CAPACITORS
Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

CH.	CCSQCH
YF.	CKSQYF
YB.	CKSQYB
NP.	CEANP
. . . . .	CEJA
WA.	CEWAR

(indicated "*" mark parts are not used.)

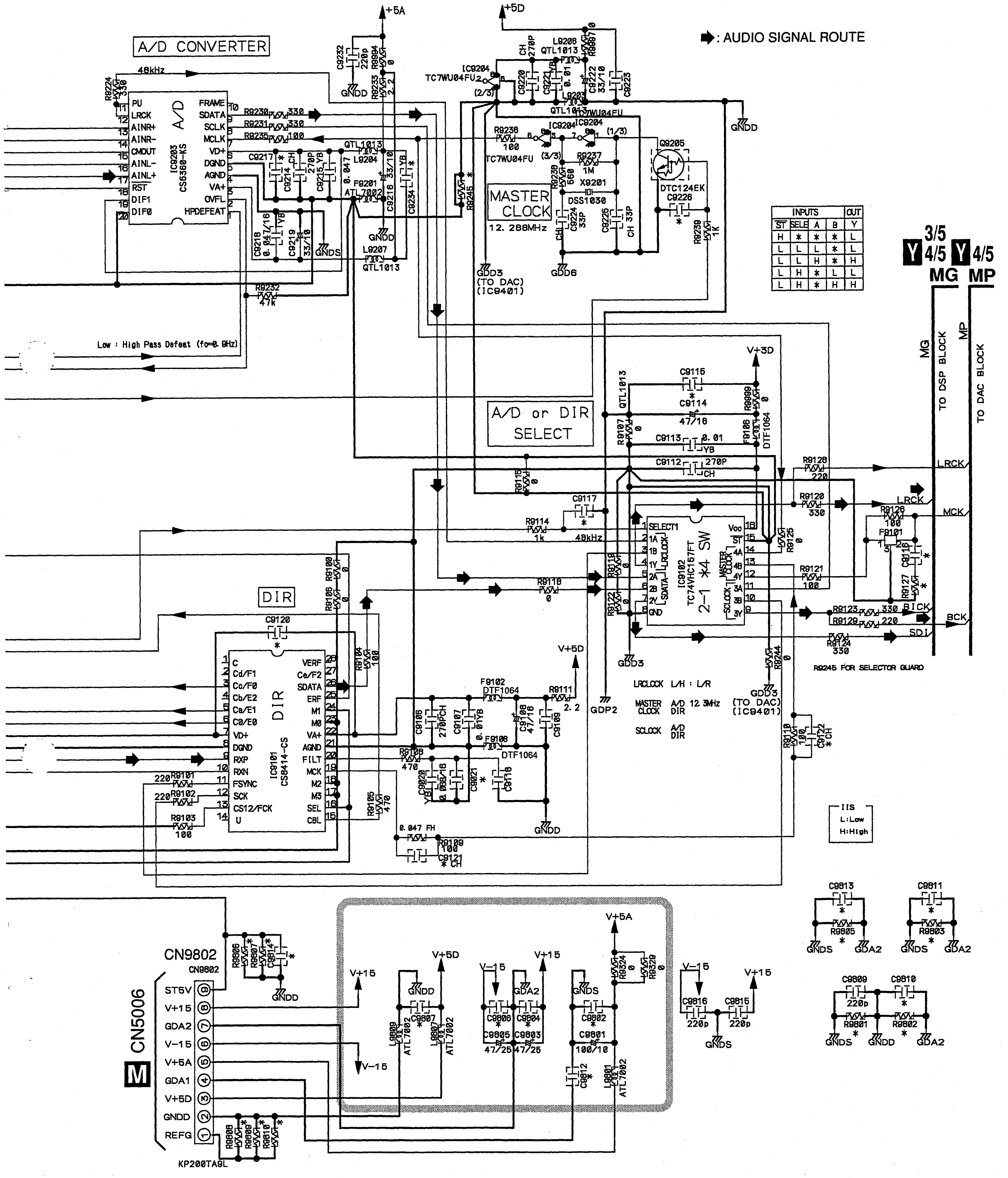

VSX-39TX, VSX-37TX
ONLY
V+15
V+5D
R9036 0
C9016 47/25
GDDM
D9002 1SS355
R9026 3.3k
C9009 0.1/16 YF
R9018 10k
R9020 2k
C9012 0.1/16 YF
C9013 0.1/16 YF
R9023 22
Q9005 2SC3082K N/P
Q9006 2SC3082K N/P
R9015 2k
R9016 2k
Q9004 2SC3082K N/P
R9017 1.5k
C9011 0.1/16 YF
R9019 5.1k
R9021 1k
C9018 0.1/16 YF
R9029 560
C9010 0.1/16 YF
R9022 1k
R9024 3.3k
C9014 0.01 YB
R9062 3.9k
R9025 1k
Q9007 2PB709A Q/R
C9015 0.1/16 YF
GDD1
GDDM
V+5D
C9052 0.1/16 YF
R9055 120
C9053 4.7/25 NP
R9053 10k
R9056 68k
R9051 39k
R9052 24k
IC9041(2/2) NJM4558MD
V+15
C9051 0.1/16 YF
R9054 10k
C9055 0.1/16 YF
R9039 270k
R9058 47k
R9059 47k
R9057 47k
TP2 acar02
GDD1
C9057 27p CH
X9001 AS57009 16.432MHz
R9060 *
C9056 0.01 YB
D9001 KV1651
C9054 0.01 YB
VCXO
GDD1
R9096 0
R9095 0
GDA2
GDDM
C9077 0.1/16 YF
TP1 acar02
R9074 220
R9061 470
C9076 270p CH
C9070 0.01 YB
MD
IC9091 LH52256CN-70LL
256k SRAM
GDD7
D1 D3 D5
I/O4 I/O5 I/O6 I/O7 I/O8 CS A10 OE A11 A9 A8 A13 WE VCC
VSS I/O3 I/O2 I/O1 A0 A1 A2 A3 A4 A5 A6 A7 A12 A14
MC
A0 A1 A2 A3 A4 A5 A6
IC9071 PM4007
RF DEMODULATOR
GND VDD MUTI C1F0 C1F1 C2F0 C2F1 TI8 TI7 TI6 DAOUT DASYC VLDY TI5 MUTC PDDIS TI4 PDO TDO TRP TCK TLDB TI3 TI2 VOUT VIN TI1 GND VDD DB0
DB1 DB2 DB3 DB4 DB5 DB6 DB7 A10 OEB A11 GND A9 A8 A13 WEB A14 A12 VDD GND A7
GND CPIN CMIN AGND TM4 VDD DIN DOUT DOUTB C9M GND WINGT SYST0 SYST1 ADST0 ADST1 TM5 BUNRI AGND
GND VDD RESET OSCON DATA MCK MLTB IDST IDCK IDO TM0 ECCK DEN DRY MSYC TM1 A0 A1 A2 A3 A4 A5 TM2 TM3 XOUT XIN XEXT GND VDD A6
F9091:DTF1064
V+5D
R9091(L9093)
C9093 YF
C9091 47/16
C9094 YF
C9092 0.1/16 YF
F9092 DTF1064
GDD1
GDD7
C9075 0.1/16 YF
C9073 YF
C9074 1.0/16
C9082 0.1/25 *
C9083 *
A0 A1 A2 A3 A4 A5 A6

3.17 DSP ASSY (2/5)


CN9801
REFG
LIN
GNDS
RIN
LOUT
ROUT
LSOUT
RSOUT
COUT
SWOUT
KP200TA17L
CN5007
M
INPUT ATT
R9203 6.8K
C9203 4.7/50
R9201 6.8K
R9207 6.8K
C9201 27P
IC9201(1/2) NJM2100M
IC9201 NJM2100M (2/2)
R9212 4.7K
R9211 4.7K
V+5A
D9203 1SS226
D9204 1SS226
R9217 150
R9216 150
R9223 150
R9215 150
D9201 D9202 1SS226 1SS226
C9208 560P
C9211 560P
C9212 1000P
R9225 1K
C9213
C9210 0.1/16
C9209 0.1/16
YF
YB
Q9201 2SC3326(AB)
Q9202 2SC3326(AB)
R9219 22K
R9220 22K
R9205 3.3K
R9209 100
R9206 3.3K
R9210 100
C9208 0.1/25
C9205 0.1/25
C9207 4.7/50
C9206 4.7/50
R9213 10K
R9214 10K
IC9202(1/2) NJM2100M
NJM2100M (2/2) IC9202
R9204 6.8K
C9204 4.7/50
R9202 6.8K
R9208 6.8K
C9202 27P
R9218 4.7K
R9222 4.7K
GNDS
TO ME Y 5/5
ANALOG POST PROCESSING BLOCK
LO RO LSO RSO CO SWO
R9242
C9228
GNDD
MF Y 4/5
ARST
ADHP
OVFL
XSTP
ATT
ERR
TO SUB U-COM , DSP, ANALOG POST PROCESSING BLOCK
V+15
Q9203 DTA124EK
Q9204 DTC124EK
R9221 100k
V-15
GDA2
V+5D
Q9102 DTA124EK
Q9104 DTA124EK
R9113 22K
R9116 22K
R9112 560
R9117 1K
Q9101
Q9103
C9110 0.47/50
C9111 6800P
DTC124EK
GNDD
VSX-39TX, VSX-37TX ONLY
Y 1/5
MA
TO DEMODULATOR BLOCK
CN9804 KM250MA3
W CN1250
RFGND
RFSIG
RFG
RFS
DEMO
VSX-36TX, VSX-D909S ONLY
SELA
SELB
SELC
CSEL
CBL
EMPH
PCMD
C/P
ST5V
R9804 0
CN9803 HLEM13S-1
W CN1201
V+5D
GNDD
COAX1
COAX2
OPT1
OPT2
OPTOUT
OPT3
OPT4
R9131 0
R9161 0
R9162 0
R9158 0
R9160 0
F9151 DTF1064
F9152 DTF1064
R9151 100K
R9152 100K
R9153 0
C9151 C9152 47/16
C9153 C9154 0.01
CH 270p
IC9151 TC74ACT151F 8-1 SW
Vcc D4 D5 D6 D7 A B C
D3 D2 D1 D0 Y W ST GND
R9165 1k
R9166
R9167 1k
C9157 C9156 C9155
GDD2
R9995 0
R9996 0
R9163 0
R9164 100K
R9155 100K
R9156 100K
R9157 0
R9159 100
R9168 100
C9158 0.01
F9101 DTF1064
C9101 C9102 47/16
C9103 0.01
C9104 CH 270P
L9107 QTL1013
C9105 0.01
DIGITAL INPUT SELECT

Y 2/5 DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)

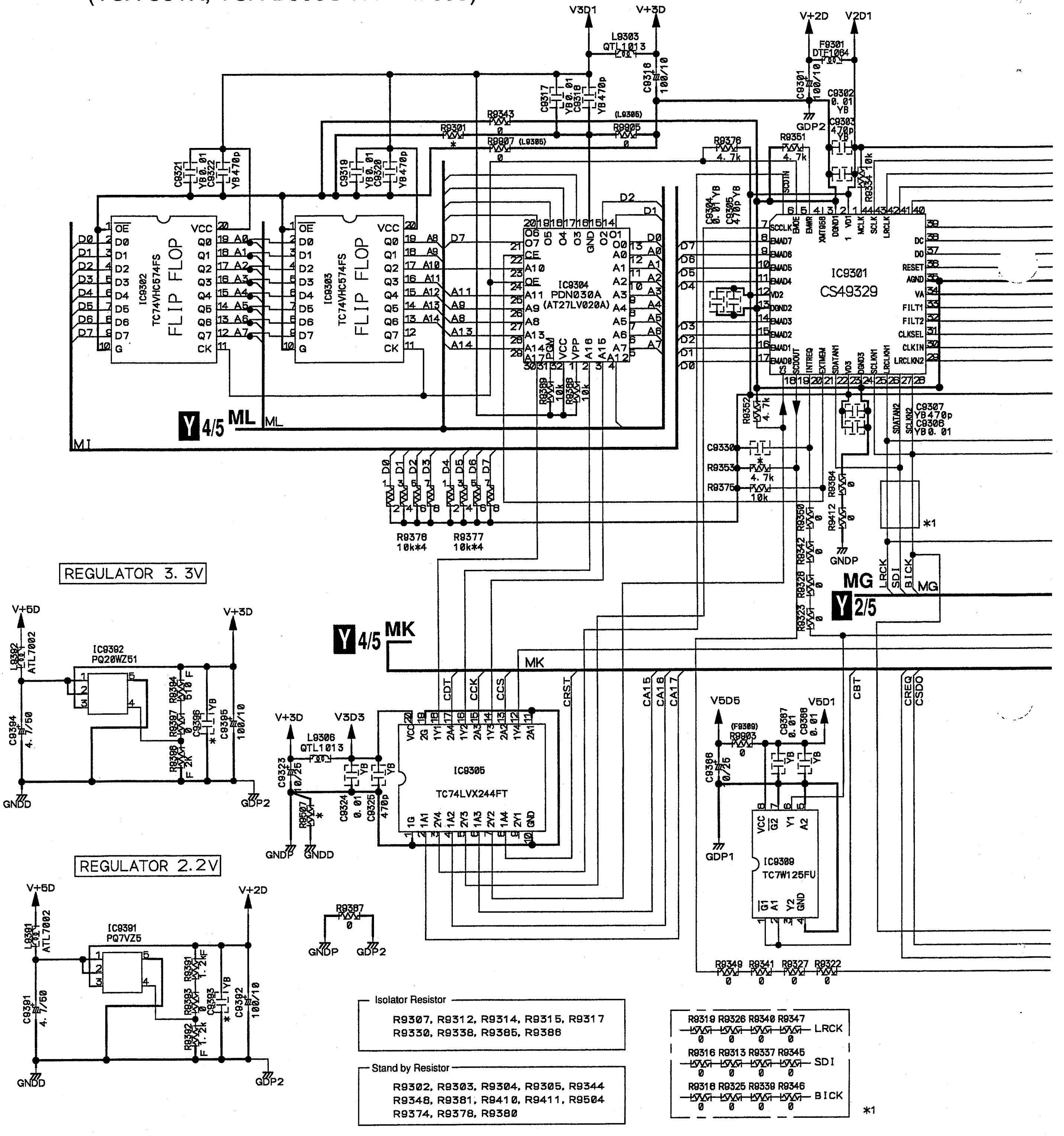
▭ : The power supply is shown with the marked box.

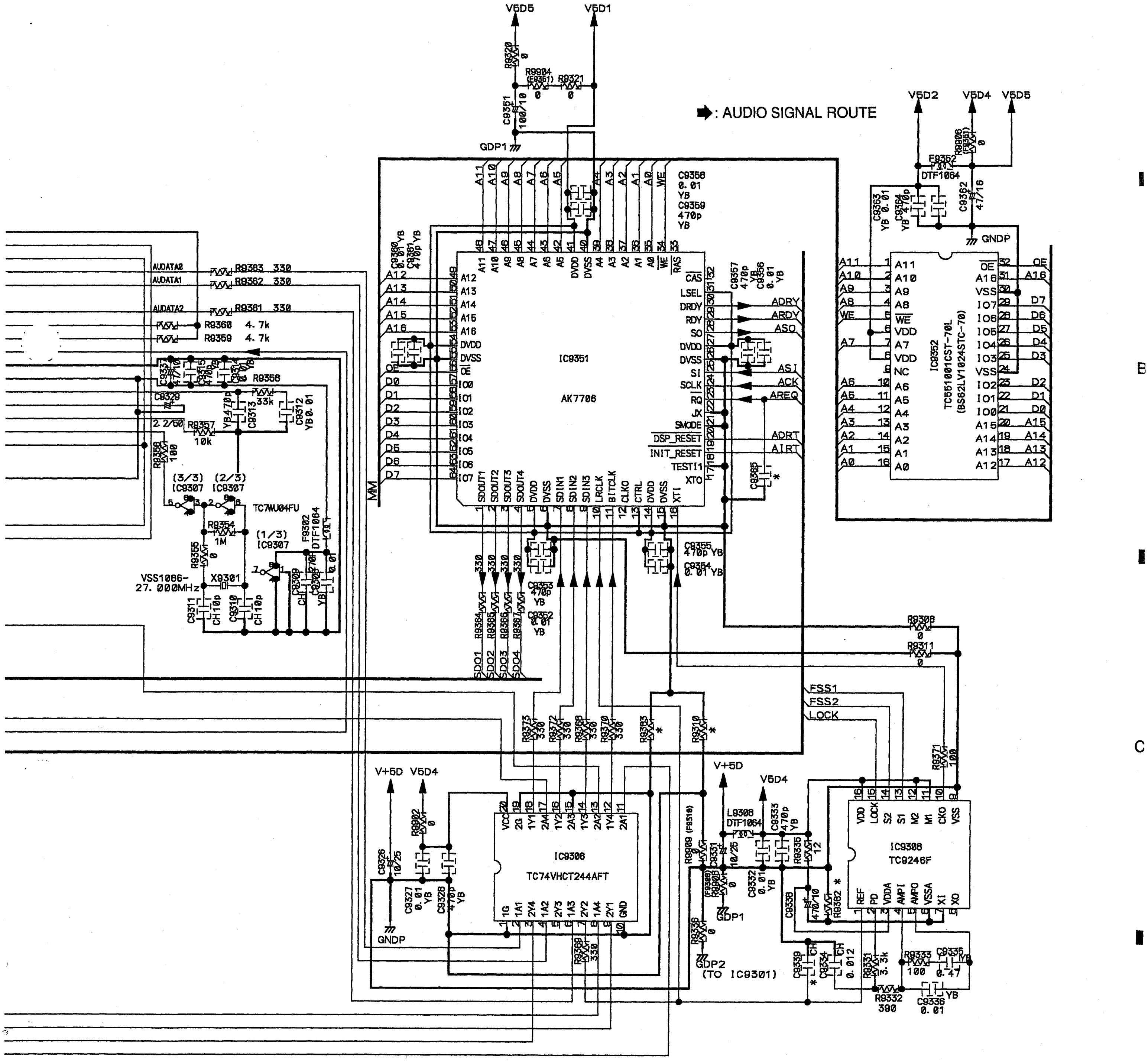

➡: AUDIO SIGNAL ROUTE
A/D CONVERTER
48kHz
IC9203
CS5360-KS
A/D
PU
LRCK
AINR+
AINR-
CMOUT
AINL-
AINL+
RST
DIF1
DIF0
FRAME
SDATA
SCLK
MCLK
VD+
DGND
AGND
VA+
OVFL
HPDEFEAT
R9224 330
R9230 330
R9231 330
R9235 100
R9232 47k
Low : High Pass Defeat (fc=0.9Hz)
+5A
+5D
C9232 220p
R9904 0
R9233 2.2
GNDD
QTL1013
L9204
F9201
ATL7002
C9217
C9214 CH
C9215 YB
270P
0.047
C9216 33/10
C9234
C9218 0.047/16 YB
C9219 33/10
GNDS
L9207
QTL1013
R9245
IC9204
TC7WU04FU
(2/3)
(3/3)
(1/3)
R9236 100
R9237 1M
R9238 560
X9201
DSS1030
MASTER CLOCK
12.288MHz
C9224 33P
C9225 CH 33P
GDD3
(TO DAC)
(IC9401)
GDD6
L9206
QTL1013
R9907 0
C9220
C9221 YB
0.01
C9222 33/10
C9223
L9203
Q9205
DTC124EK
C9226
R9239 1K
A/D or DIR SELECT
V+3D
C9115
C9114 47/16
C9113 0.01 YB
C9112 270P CH
R9107 0
F9106
DTF1064
R9899 0
R9115 0
C9117
R9114 1k
48kHz
IC9102
TC74VHC157FT
2-1 ×4 SW
SELECT1
1A
1B
1Y
2A
2B
2Y
GND
Vcc
ST
4A
4B
4Y
3A
3B
3Y
LRCLOCK
SDATA
MASTER CLOCK
SCLOCK
R9118 0
R9119 0
R9122 0
R9125 0
R9126 220
R9120 330
R9121 100
R9123 330
R9129 220
R9124 330
R9126 100
F9101
C9116
R9127
R9244 0
GDD3
(TO DAC)
(IC9401)
R9245 FOR SELECTOR GUARD
LRCLOCK L/H : L/R
MASTER CLOCK A/D 12.3MHz DIR
SCLOCK A/D DIR
GDP2
LRCK
MCK
BICK
BCK
SDI
MG
TO DSP BLOCK
MP
TO DAC BLOCK
3/5
Y 4/5 MG
Y 4/5 MP
DIR
IC9101
CS8414-CS
C
Cd/F1
Cc/F0
Cb/E2
Ca/E1
C0/E0
VD+
DGND
RXP
RXN
FSYNC
SCK
CS12/FCK
U
VERF
Ce/F2
SDATA
ERF
M1
M0
VA+
AGND
FILT
MCK
M2
M3
SEL
CBL
C9120
R9100 0
R9106 0
R9104 100
R9101 220
R9102 220
R9103 100
R9105 470
V+5D
F9102
DTF1064
R9111 2.2
C9106 270PCH
C9107 0.01YB
C9108 47/16
C9109
F9108
DTF1064
R9108 470
C9020 0.068/16 YB
C9021
C9110
0.047 FH
R9109 100
C9121 CH
GNDD
R9110 100
C9122 CH
IIS
L:Low
H:High
C9813
R9805
C9811
R9803
GNDS
GDA2
C9809 220p
C9810
R9801
R9802
GNDD
CN9802
R9806
R9807
C9814
GNDD
ST5V
V+15
GDA2
V-15
V+5A
GDA1
V+5D
GNDD
REFG
M CN5006
R9808
R9809
R9810
KP200TA9L
V+15
V+5D
V-15
V+15
V+5A
L9809 ATL7002
C9807
L9807 ATL7002
C9806
C9804
GDA2
C9805
C9803
47/25
C9802
C9801 100/10
C9812
L9801 ATL7002
R9324 0
R9329 0
C9816 220p
C9815 220p
GNDS

INPUTS				OUT
ST	SELE	A	B	Y
H	*	*	*	L
L	L	L	*	L
L	L	H	*	H
L	H	*	L	L
L	H	*	H	H

3.18 DSP ASSY (3/5)

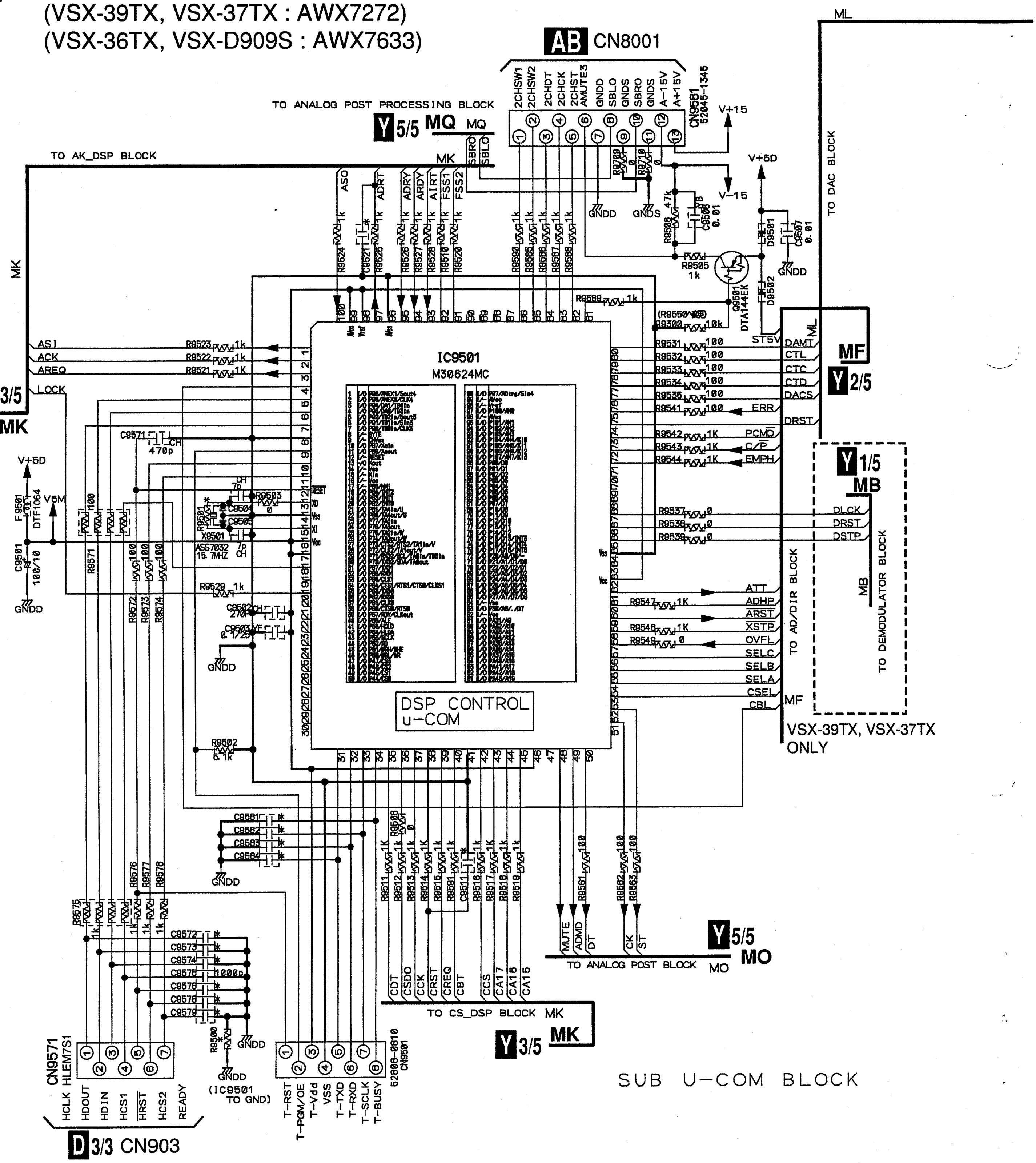
Y 3/5 DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)

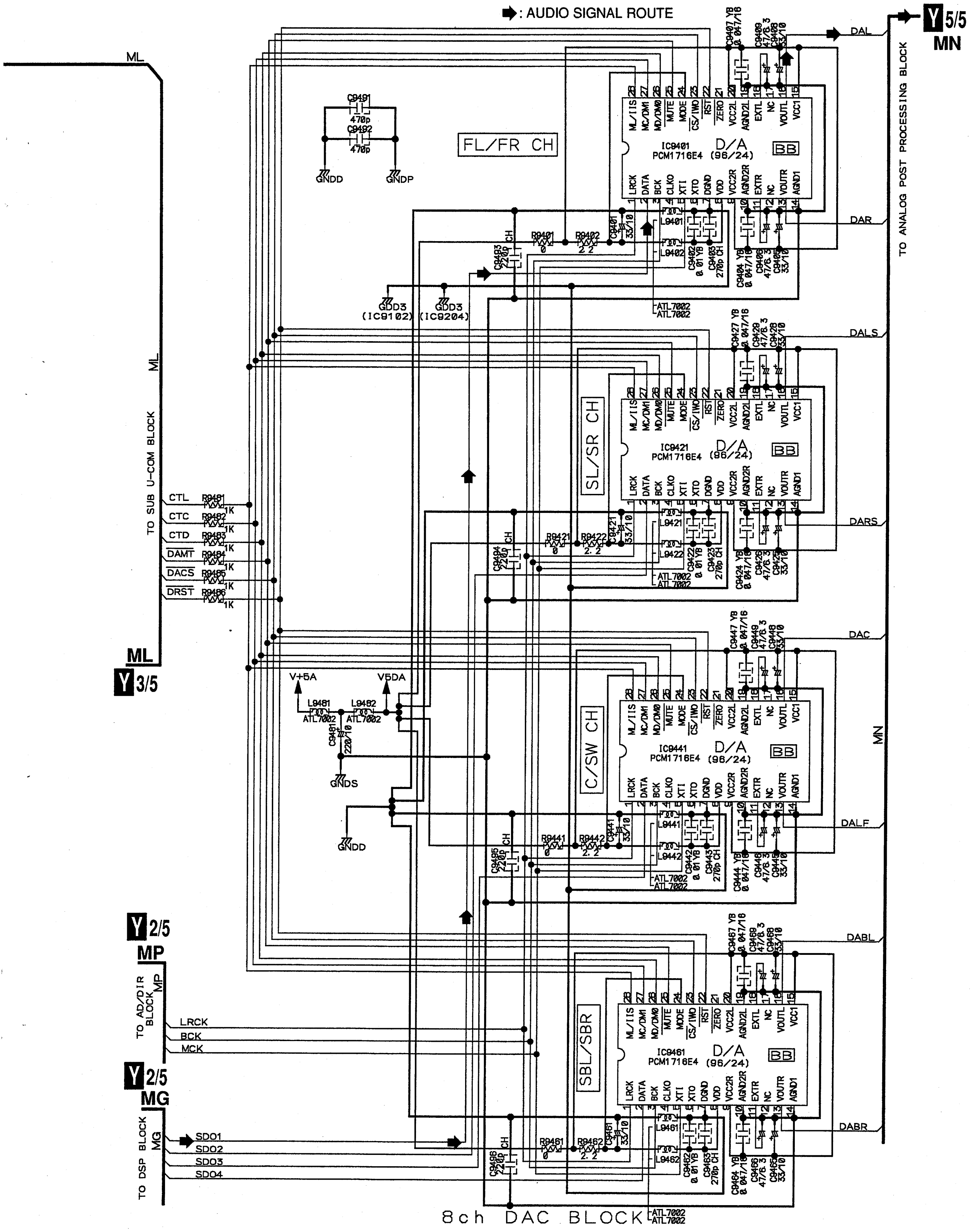

V3D1
V+3D
L9303 QTL1013
C9316 100/10
C9317 YB0.01
C9318 YB470p
R9343 0
R9301 *
R9907 (L9305) 0
R9905 (L9305) 0
C9321 YB0.01
C9322 YB470p
C9319 YB0.01
C9320 YB470p
IC9302 TC74VHC574FS FLIP FLOP
IC9303 TC74VHC574FS FLIP FLOP
OE D0 D1 D2 D3 D4 D5 D6 D7 G VCC Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7 CK
IC9304 PDN030A (AT27LV020A)
V+2D
V2D1
F9301 DTF1064
C9301 100/10
C9302 0.01 YB
GDP2
C9303 470p YB
R9376 4.7k
R9351 4.7k
R9354 10k
C9304 0.01 YB
C9305 470p YB
IC9301 CS49329
SCCLK EMOE EMWR XMT958 DGND1 VD1 MCLK SCLK LRCLK DC DO RESET AGND VA FILT1 FILT2 CLKSEL CLKIN LRCLKN2 EMAD7 EMAD6 EMAD5 EMAD4 VD2 DGND2 EMAD3 EMAD2 EMAD1 EMAD0 CS SCDOUT INTREQ EXTMEM SDATAN1 VD3 DGND3 SCLKN1 LRCLKN1 SDATAN2 SCLKN2
R9369 10k
R9388 10k
Y 4/5 ML
ML
MI
R9352 4.7k
C9330
R9353 4.7k
R9375 10k
R9384 0
R9412 0
R9350 0
R9342 0
R9328 0
R9323 0
C9307 YB470p
C9306 YB0.01
GNDP
*1
LRCK SDI BICK
MG
Y 2/5
R9378 10k*4
R9377 10k*4
REGULATOR 3.3V
V+5D
V+3D
L9392 ATL7002
IC9392 PQ20WZ51
C9394 4.7/50
R9394 510 F
R9397 0
C9396 YB
R9398 F 2K
C9395 100/10
GNDD
GDP2
Y 4/5 MK
MK
CDT CCK CCS CRST CA15 CA16 CA17 CBT CREQ CSDO
V+3D
V3D3
L9306 QTL1013
C9323 0/25
C9324 0.01
C9325 470p
R9507 *
GNDP GNDD
IC9305 TC74LVX244FT
V5D5
V5D1
R9903 (F9309) 0
C9387 0.01
C9388 0.01
C9386 0/25
GDP1
IC9309 TC7W125FU
R9349 0
R9341 0
R9327 0
R9322 0
REGULATOR 2.2V
V+5D
V+2D
L9391 ATL7002
IC9391 PQ7VZ5
R9391 1.2kF
R9393 0
C9393 YB
C9392 100/10
R9392 F 1.2k
C9391 4.7/50
GNDD
GDP2
R9387 0
GNDP GDP2
Isolator Resistor
R9307, R9312, R9314, R9315, R9317
R9330, R9338, R9385, R9386
Stand by Resistor
R9302, R9303, R9304, R9305, R9344
R9348, R9381, R9410, R9411, R9504
R9374, R9378, R9380
R9319 R9326 R9340 R9347 0 0 0 0 LRCK
R9316 R9313 R9337 R9345 0 0 0 0 SDI
R9318 R9325 R9339 R9346 0 0 0 0 BICK
*1


➡: AUDIO SIGNAL ROUTE
V5D5
V5D1
V5D2
V5D4
R9320 0
R9904 (F9351) 0
R9321 0
C9351 100/10
GDP1
C9358 0.01 YB
C9359 470p YB
IC9351
AK7706
IC9352
TC551001CST-70L
(BS62LV1024STC-70)
F9352 DTF1064
R9906 (F9351) 0
C9363 YB 0.01
C9364 YB 470p
C9362 47/16
GNDP
AUDATA0
AUDATA1
AUDATA2
R9363 330
R9362 330
R9361 330
R9360 4.7k
R9359 4.7k
R9358 33k
R9357 10k
R9356 100
C9312 YB 0.01
C9313 YB 470p
C9329
IC9307
TC7WU04FU
R9354 1M
R9355 0
F9302 DTF1064
VSS1066-27.000MHz
X9301
C9311 CH 10p
C9310 CH 10p
C9357 470p YB
C9356 0.01 YB
ADRY
ARDY
ASO
ASI
ACK
AREQ
ADRT
AIRT
C9365
C9355 470p YB
C9354 0.01 YB
C9353 470p YB
C9352 0.01 YB
R9364 330
R9365 330
R9366 330
R9367 330
SDO1
SDO2
SDO3
SDO4
R9308 0
R9311 0
FSS1
FSS2
LOCK
R9373 330
R9372 330
R9368 330
R9370 330
R9383 *
R9310 *
R9371 100
V+5D
V5D4
R9902 0
C9326 10/25
C9327 0.01 YB
C9328 470p YB
GNDP
IC9306
TC74VHCT244AFT
R9369 330
L9308 DTF1064
C9333 470p YB
R9335 12
R9900 (F9310) 0
C9331 10/25
C9332 0.01 YB
GDP1
R9336 0
GDP2
(TO IC9301)
IC9308
TC9246F
C9338 470/10
R9382 *
C9339 *
C9334 CH 0.012
R9331 3.3k
R9333 100
C9335 0.47 YB
R9332 390
C9336 0.01 YB
B
C
D

3.19 DSP ASSY (4/5)

Y 4/5 DSP ASSY
(VSX-39TX, VSX-37TX : AWX7272)
(VSX-36TX, VSX-D909S : AWX7633)

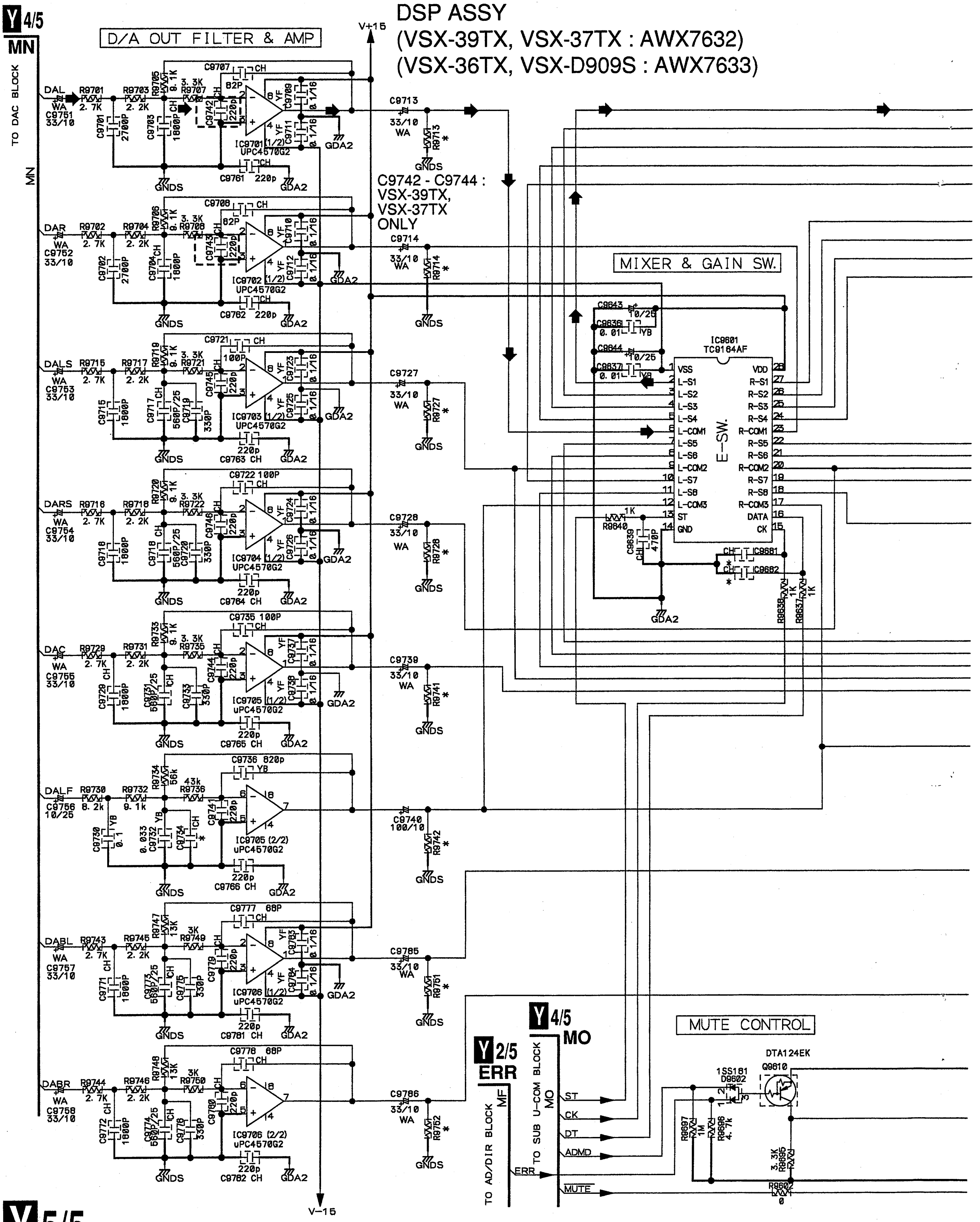

AB CN8001
2CHSW1
2CHSW2
2CHDT
2CHCK
2CHST
AMUTE3
GNDD
SBLO
GNDS
SBRO
GNDS
A-15V
A+15V
CN9581 52045-1345
V+15
V-15
V+5D
TO ANALOG POST PROCESSING BLOCK
Y 5/5 MQ
MQ
TO AK_DSP BLOCK
MK
SBRO
SBLO
ASO
ADRT
ADRY
ARDY
AIRT
FSS1
FSS2
R9524 1k
C9521
R9525 1k
R9526 1k
R9527 1k
R9528 1k
R9510 1k
R9520 1k
R9580 1k
R9585 1k
R9586 1k
R9587 1k
R9588 1k
R9709 0
R9710 0
GNDD
GNDS
R9506 47k
C9506 0.01
R9505 1k
Q9501 DTA144EK
D9501
D9502
C9507 0.01
R9589 1k
(R9550 100)
R9300 10k
TO DAC BLOCK
ML
ST5V
DAMT
CTL
CTC
CTD
DACS
ERR
DRST
MF
Y 2/5
R9531 100
R9532 100
R9533 100
R9534 100
R9535 100
R9541 100
R9542 1K
R9543 1K
R9544 1K
PCMD
C/P
EMPH
Y 1/5
MB
R9537 0
R9538 0
R9539 0
DLCK
DRST
DSTP
TO DEMODULATOR BLOCK
TO AD/DIR BLOCK
ATT
ADHP
ARST
XSTP
OVFL
SELC
SELB
SELA
CSEL
CBL
R9547 1K
R9548 1K
R9549 0
VSX-39TX, VSX-37TX ONLY
IC9501
M30624MC
DSP CONTROL u-COM
Vss
Vcc
ASI
ACK
AREQ
LOCK
R9523 1k
R9522 1k
R9521 1K
Y 3/5
MK
V+5D
F9501 DTF1064
V5M
C9501 100/10
GNDD
R9571
C9571 470p CH
R9501
C9504 7p CH
C9505 7p CH
R9503 0
X9501 ASS7032 15.7MHZ
R9529 1k
C9502 270P
C9503 0.1/20
R9572 100
R9573 100
R9574 100
R9502 5.1k
C9581
C9582
C9583
C9584
R9508 0
R9511 1K
R9512 1k
R9513 1k
R9514 1k
R9515 1k
R9581 1k
C9511
R9516 1K
R9517 1K
R9518 1k
R9519 1k
R9561 100
R9562 100
R9563 100
MUTE
ADMD
DT
CK
ST
Y 5/5 MO
TO ANALOG POST BLOCK MO
CDT
CSDO
CCK
CRST
CREQ
CBT
CCS
CA17
CA18
CA15
TO CS_DSP BLOCK MK
Y 3/5 MK
R9575 1k
R9576 1k
R9577 1k
R9578 1k
C9572
C9573
C9574
C9575 1000p
C9576
C9578
C9579
R9500
(IC9501 TO GND)
CN9571 HLEM7S1
HCLK
HDOUT
HDIN
HCS1
HRST
HCS2
READY
D 3/3 CN903
CN9501 52808-0810
T-RST
T-PGM/OE
T-Vdd
VSS
T-TXD
T-RXD
T-SCLK
T-BUSY
SUB U-COM BLOCK


➡: AUDIO SIGNAL ROUTE
Y 5/5
MN
DAL
DAR
DALS
DARS
DAC
DALF
DABL
DABR
TO ANALOG POST PROCESSING BLOCK
MN
ML
TO SUB U-COM BLOCK
ML
CTL R9481
CTC R9482
CTD R9483
DAMT R9484
DACS R9485
DRST R9486
1K
ML
Y 3/5
C9491 470p
C9492 470p
GNDD
GNDP
GDD3 (IC9102)
GDD3 (IC9204)
FL/FR CH
IC9401 PCM1716E4 D/A (96/24) BB
SL/SR CH
IC9421 PCM1716E4 D/A (96/24) BB
C/SW CH
IC9441 PCM1716E4 D/A (96/24) BB
SBL/SBR
IC9461 PCM1716E4 D/A (96/24) BB
ML/IIS MC/DM1 MD/DM0 MUTE MODE CS/IWO RST ZERO VCC2L AGND2L EXTL NC VOUTL VCC1
LRCK DATA BCK CLKO XT1 XTO DGND VDD VCC2R AGND2R EXTR NC VOUTR AGND1
R9401 0
R9402 2.2
C9401 33/10
C9402 0.01 YB
C9403 270p CH
C9404 YB 0.047/16
C9405 33/10
C9406 47/6.3
C9407 YB 0.047/16
C9408 33/10
C9409 47/6.3
C9493 220p CH
L9401
L9402
ATL7002
R9421 0
R9422 2.2
C9421 33/10
C9422 0.01 YB
C9423 270p CH
C9424 YB 0.047/16
C9425 33/10
C9426 47/6.3
C9427 YB 0.047/16
C9428 33/10
C9429 47/6.3
C9494 220p CH
L9421
L9422
V+5A
V5DA
L9481 ATL7002
L9482 ATL7002
C9481 220/10
GNDS
GNDD
R9441 0
R9442 2.2
C9441 33/10
C9442 0.01 YB
C9443 270p CH
C9444 YB 0.047/16
C9445 33/10
C9446 47/6.3
C9447 YB 0.047/16
C9448 33/10
C9449 47/6.3
C9495 220p CH
L9441
L9442
Y 2/5
MP
TO AD/DIR BLOCK
MP
LRCK
BCK
MCK
Y 2/5
MG
TO DSP BLOCK
MG
SDO1
SDO2
SDO3
SDO4
R9461 0
R9462 2.2
C9461 33/10
C9462 0.01 YB
C9463 270p CH
C9464 YB 0.047/16
C9465 33/10
C9466 47/6.3
C9467 YB 0.047/16
C9468 33/10
C9469 47/6.3
C9496 220p CH
L9461
L9462
ATL7002

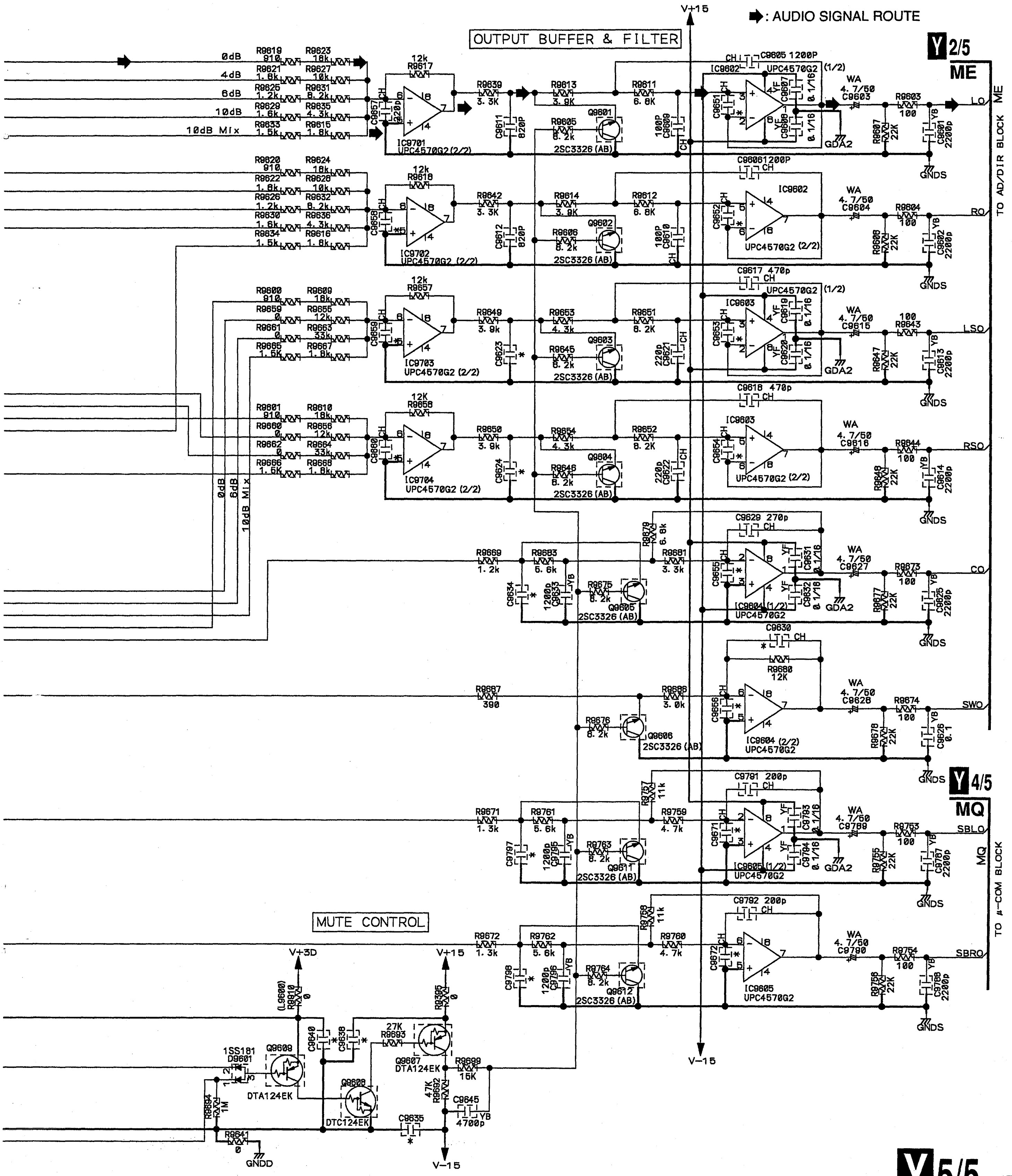
8ch DAC BLOCK

3.20 DSP ASSY (5/5)

Y 5/5
DSP ASSY
(VSX-39TX, VSX-37TX : AWX7632)
(VSX-36TX, VSX-D909S : AWX7633)


Y 4/5
MN
TO DAC BLOCK
MN
D/A OUT FILTER & AMP
V+15
V−15
DAL
DAR
DALS
DARS
DAC
DALF
DABL
DABR
R9701 2.7K
R9702 2.7K
R9703 2.2K
R9704 2.2K
R9705 9.1K
R9706 9.1K
R9707 3.3K
R9708 3.3K
C9751 33/10 WA
C9752 33/10 WA
C9753 33/10 WA
C9754 33/10 WA
C9755 33/10 WA
C9756 10/25
C9757 33/10 WA
C9758 33/10 WA
C9701 2700P
C9702 2700P
C9703 1800P CH
C9704 1800P CH
C9707 82P CH
C9708 82P CH
C9742 220p CH
C9743 220p CH
IC9701 (1/2) UPC4570G2
IC9702 (1/2) UPC4570G2
IC9703 (1/2) UPC4570G2
IC9704 (1/2) UPC4570G2
IC9705 (1/2) uPC4570G2
IC9705 (2/2) uPC4570G2
IC9706 (1/2) uPC4570G2
IC9706 (2/2) uPC4570G2
C9709 0.1/16 YF
C9711 0.1/16 YF
C9710 0.1/16 YF
C9712 0.1/16 YF
C9761 220p CH
C9762 220p CH
C9763 220p CH
C9764 220p CH
C9765 220p CH
C9766 220p CH
C9781 220p CH
C9782 220p CH
GNDS
GDA2
C9713 33/10 WA
C9714 33/10 WA
C9727 33/10 WA
C9728 33/10 WA
C9739 33/10 WA
C9740 100/10
C9785 33/10 WA
C9786 33/10 WA
R9713 *
R9714 *
R9727 *
R9728 *
R9741 *
R9742 *
R9751 *
R9752 *
C9742 - C9744 : VSX-39TX, VSX-37TX ONLY
R9715 2.7K
R9717 2.2K
R9719 9.1K
R9721 3.3K
C9721 100P CH
C9715 1800P
C9717 560P/25 CH
C9719 330P
C9745 220p
C9723 0.1/16 YF
C9725 0.1/16 YF
R9716 2.7K
R9718 2.2K
R9720 9.1K
R9722 3.3K
C9722 100P CH
C9716 1800P
C9718 560P/25 CH
C9720 330P
C9746 220p
C9724 0.1/16 YF
C9726 0.1/16 YF
R9729 2.7K
R9731 2.2K
R9733 9.1K
R9735 3.3K
C9735 100P CH
C9729 1800P CH
C9731 560P/25 CH
C9733 330P
C9744 220p
C9737 0.1/16 YF
C9738 0.1/16 YF
R9730 8.2k
R9732 9.1k
R9734 56k
R9736 43k
C9736 820p YB
C9730 0.1 YB
C9732 0.033 YB
C9734 CH *
C9741 220p
R9743 2.7K
R9745 2.2K
R9747 13K
R9749 3K
C9777 68P CH
C9771 1800P CH
C9773 560P/25 CH
C9775 330P
C9779 220p
C9783 0.1/16 YF
C9784 0.1/16 YF
R9744 2.7K
R9746 2.2K
R9748 13K
R9750 3K
C9778 68P CH
C9772 1800P CH
C9774 560P/25 CH
C9776 330P
C9780 220p
MIXER & GAIN SW.
IC9601 TC9164AF
E-SW.
1 VSS
2 L-S1
3 L-S2
4 L-S3
5 L-S4
6 L-COM1
7 L-S5
8 L-S6
9 L-COM2
10 L-S7
11 L-S8
12 L-COM3
13 ST
14 GND
28 VDD
27 R-S1
26 R-S2
25 R-S3
24 R-S4
23 R-COM1
22 R-S5
21 R-S6
20 R-COM2
19 R-S7
18 R-S8
17 R-COM3
16 DATA
15 CK
C9643 10/25
C9636 0.01 YB
C9644 10/25
C9637 0.01 YB
R9640 1K
C9639 470P CH
C9681 CH *
C9682 CH *
R9638 1K
R9637 1K
GDA2
Y 4/5
MO
Y 2/5
ERR
TO AD/DIR BLOCK
MF
TO SUB U-COM BLOCK
MO
ST
CK
DT
ADMD
ERR
MUTE
MUTE CONTROL
DTA124EK
Q9610
1SS181
D9602
R9697 1M
R9696 4.7k
R9695 3.3K
R9601 0

A

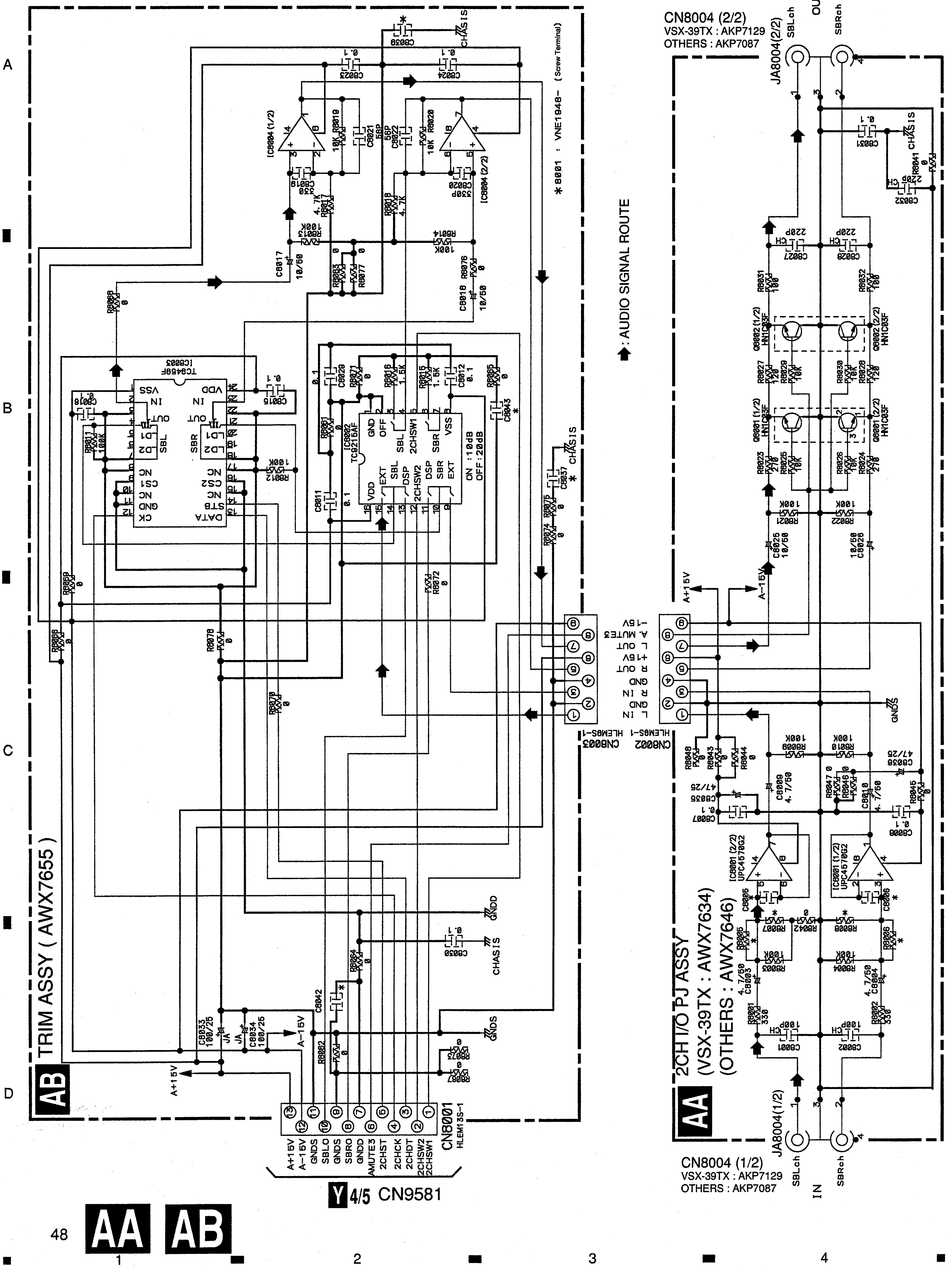

OUTPUT BUFFER & FILTER
➡: AUDIO SIGNAL ROUTE
V+15
V−15
Y 2/5
ME
TO AD/DIR BLOCK ME
Y 4/5
MQ
TO µ-COM BLOCK MQ
LO
RO
LSO
RSO
CO
SWO
SBLO
SBRO
0dB
4dB
6dB
10dB
10dB Mix
0dB
6dB
10dB Mix
IC9701 UPC4570G2 (2/2)
IC9702 UPC4570G2 (2/2)
IC9703 UPC4570G2 (2/2)
IC9704 UPC4570G2 (2/2)
IC9602 UPC4570G2 (1/2)
IC9602 UPC4570G2 (2/2)
IC9603 UPC4570G2 (1/2)
IC9603 UPC4570G2 (2/2)
IC9604 (1/2) UPC4570G2
IC9604 (2/2) UPC4570G2
IC9605 (1/2) UPC4570G2
IC9605 UPC4570G2
Q9601 2SC3326 (AB)
Q9602 2SC3326 (AB)
Q9603 2SC3326 (AB)
Q9604 2SC3326 (AB)
Q9605 2SC3326 (AB)
Q9606 2SC3326 (AB)
Q9611 2SC3326 (AB)
Q9612 2SC3326 (AB)
GDA2
GNDS
WA 4.7/50
MUTE CONTROL
V+3D
V+15
V−15
1SS181 D9601
Q9609 DTA124EK
Q9608 DTC124EK
Q9607 DTA124EK
R9693 27K
R9699 15K
R9692 47K
C9645 4700p
R9694 1M
R9641 0
GNDD

B

C

D

3.21 2CH I/O PJ and TRIM ASSYS

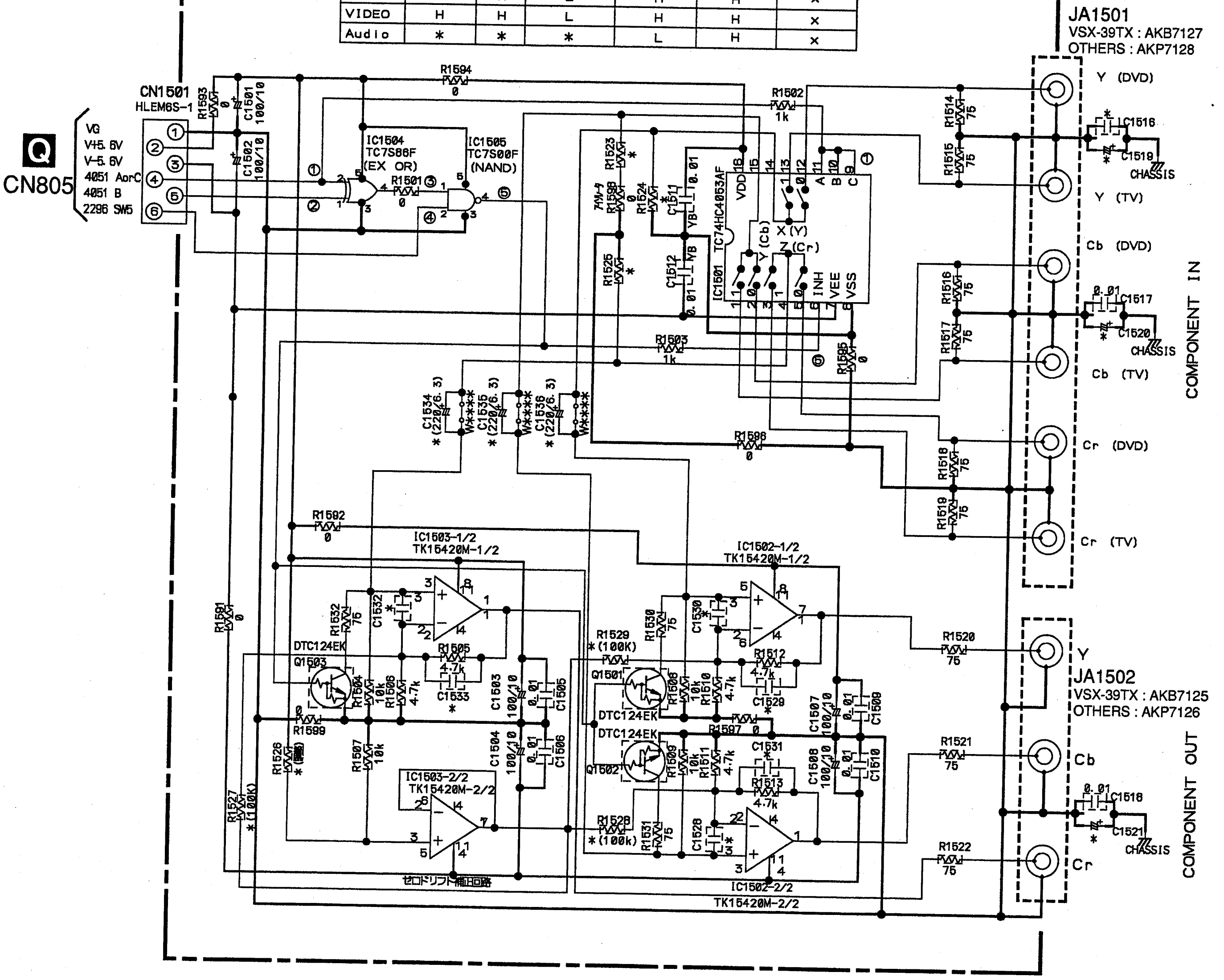

A
B
C
D
CN8004 (2/2)
VSX-39TX : AKP7129
OTHERS : AKP7087
JA8004(2/2)
SBLch
OUT
SBRch
CHASSIS
C8039
C8023
C8024
IC8004 (1/2)
IC8004 (2/2)
R8019
R8020
C8021
C8022
56P
C8019
C8020
330P
R8017
R8018
4.7K
R8013
R8014
100K
C8017
10/50
C8018
R8063
R8077
R8076
R8068
✱B001 : VNE1948- (Screw Terminal)
: AUDIO SIGNAL ROUTE
IC8003
TC9459F
VDD
VSS
IN
OUT
SBL
SBR
LD1
LD2
NC
CS1
CS2
GND
STB
CK
DATA
C8015
C8016
R8011
R8012
C8029
C8012
R8071
R8016
R8015
1.5K
R8065
C8043
R8061
IC8002
TC9215AF
GND
OFF
SBL
2CHSW1
SBR
VSS
VDD
EXT
DSP
2CHSW2
ON :10dB
OFF:20dB
C8011
C8057
R8075
R8074
R8072
R8069
R8066
R8078
R8070
CN8003
HLEM9S-1
CN8002
HLEM9S-1
-15V
A.MUTE3
L OUT
+15V
R OUT
GND
R IN
L IN
A+15V
A-15V
GNDS
GNDD
C8030
R8084
C8042
R8082
R8073
R8087
C8033
100/25
C8034
JA
TRIM ASSY (AWX7655)
AB
CN8001
HLEM13S-1
A+15V
A-15V
GNDS
SBLO
GNDS
SBRO
GNDD
AMUTE3
2CHST
2CHCK
2CHDT
2CHSW2
2CHSW1
Y 4/5 CN9581
C8031
C8032
R8041
220P
C8027
C8028
R8031
R8032
Q8002 (1/2)
Q8002 (2/2)
HN1C03F
Q8001 (1/2)
Q8001 (2/2)
R8027
R8028
R8029
R8030
R8023
R8024
R8025
R8026
270
10K
R8021
R8022
C8025
C8026
10/50
R8009
R8010
R8048
R8043
R8044
C8009
4.7/50
C8035
47/25
C8007
R8047
R8046
C8010
C8036
C8008
R8045
IC8001 (2/2)
IC8001 (1/2)
UPC4570G2
C8005
C8006
R8007
R8042
R8008
R8005
R8006
R8003
R8004
C8003
C8004
R8001
R8002
330
C8001
C8002
100P
2CH I/O PJ ASSY
(VSX-39TX : AWX7634)
(OTHERS : AWX7646)
AA
JA8004(1/2)
CN8004 (1/2)
VSX-39TX : AKP7129
OTHERS : AKP7087
SBLch
IN
SBRch

3.22 COMPONENT ASSY

Z COMPONENT ASSY
(VSX-39TX : AWX7635)
(VSX-37TX, VSX-36TX, VSX-D909S : AWX7636)

Table of truth value

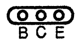
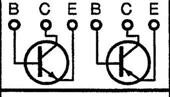
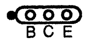
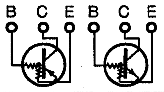
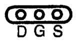
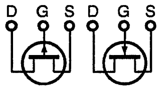
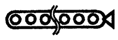
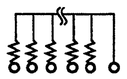
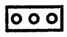
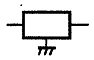
FUNC	① 4051 AorC →4053 ABC	② 4051 B	③ ①EX OR②	④ 2298 SW5	⑤ ③NAND④ →4053 INH	To ①, ⑤ 4053 X, Y, Z OUT
DVD/LD	L	H	H	H	L	0
TV/SAT	H	L	H	H	L	1
VCR1	L	L	L	H	H	×
VCR2	H	H	L	H	H	×
VIDEO	H	H	L	H	H	×
Audio	*	*	*	L	H	×


JA1501
VSX-39TX : AKB7127
OTHERS : AKP7128
Y (DVD)
Y (TV)
Cb (DVD)
Cb (TV)
Cr (DVD)
Cr (TV)
COMPONENT IN
JA1502
VSX-39TX : AKB7125
OTHERS : AKP7126
Y
Cb
Cr
COMPONENT OUT
Q
CN805
CN1501
HLEM6S-1
VG
V+5. 6V
V-5. 6V
4051 AorC
4051 B
2298 SW5
IC1504
TC7S86F
(EX OR)
IC1505
TC7S00F
(NAND)
IC1501 TC74HC4053AF
IC1503-1/2
TK15420M-1/2
IC1503-2/2
TK15420M-2/2
IC1502-1/2
TK15420M-1/2
IC1502-2/2
TK15420M-2/2
Q1501
Q1502
Q1503
DTC124EK
R1594 0
R1502 1k
R1503 1k
R1596 0
R1592 0
R1520 75
R1521 75
R1522 75
C1516
C1517
C1518
C1519
C1520
C1521
CHASSIS
ゼロドリフト補正回路

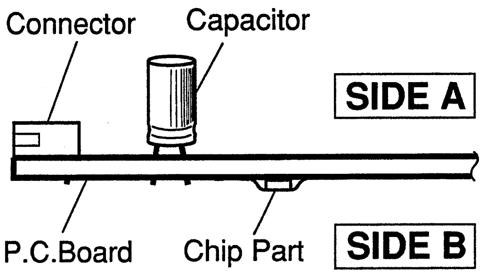
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

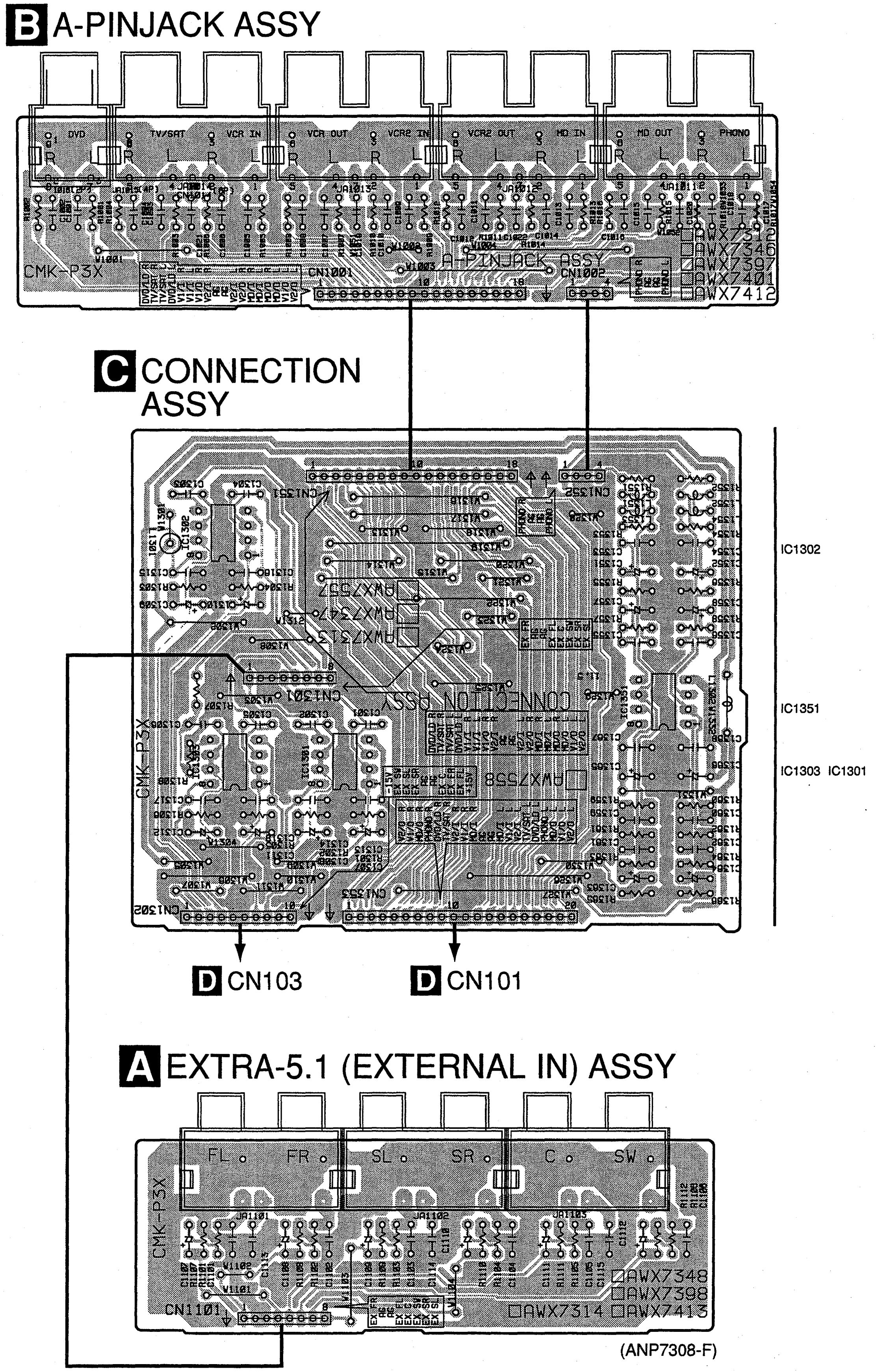
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

4.1 EXTRA-5.1 (EXTERNAL IN), A-PINJACK and CONNECTION ASSYS


B A-PINJACK ASSY
DVD
TV/SAT
VCR IN
VCR OUT
VCR2 IN
VCR2 OUT
MD IN
MD OUT
PHONO
R L
CMK-P3X
A-PINJACK ASSY
CN1001
CN1002
AWX7346
AWX7397
AWX7401
AWX7412
C CONNECTION ASSY
CN1321
CN1322
CN1301
CN1302
CN1323
AWX7557
AWX7347
AWX7313
AWX7558
CONNECTION ASSY
CMK-P3X
IC1302
IC1351
IC1303 IC1301
D CN103
D CN101
A EXTRA-5.1 (EXTERNAL IN) ASSY
FL
FR
SL
SR
C
SW
JA1101
JA1102
JA1103
CMK-P3X
CN1101
AWX7348
AWX7398
AWX7314
AWX7413

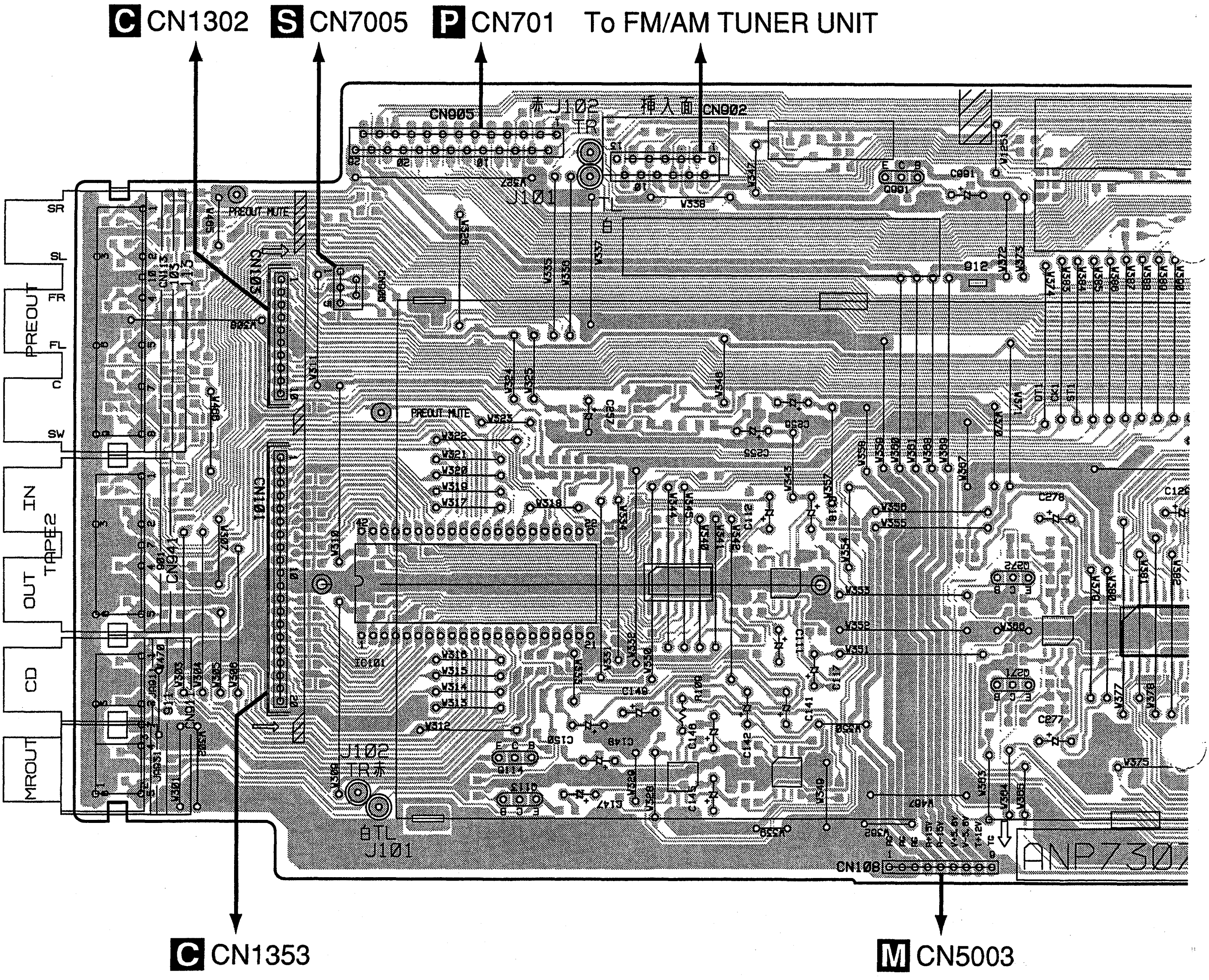
(ANP7308-F)

SIDE A

A B C

4.2 MAIN CONTROL ASSY

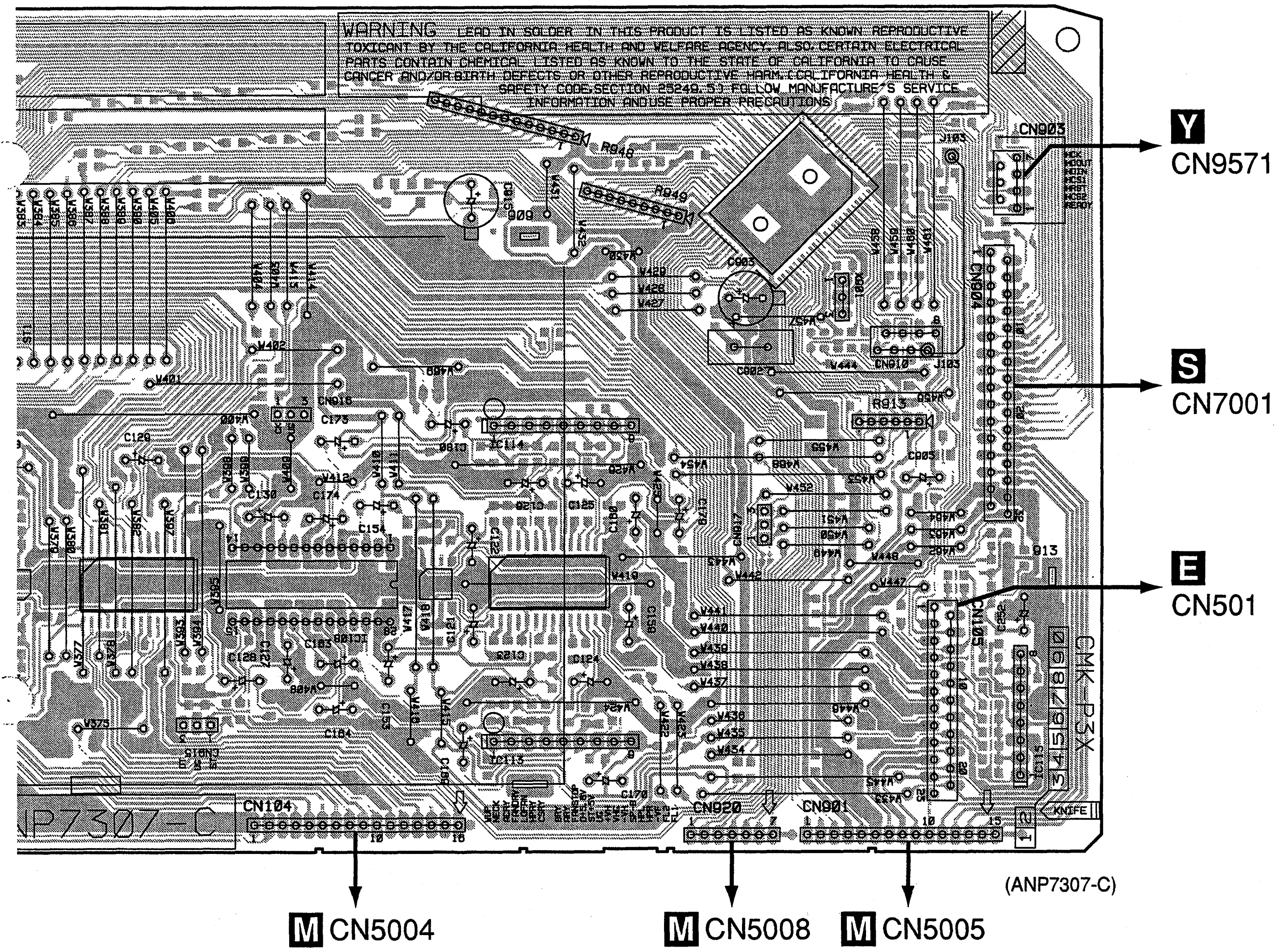
D MAIN CONTROL ASSY


C CN1302
S CN7005
P CN701
To FM/AM TUNER UNIT
CN905
赤 J102
TR
挿入面
CN902
J101
TL
PREOUT MUTE
SR
SL
FR
FL
C
SW
PREOUT
IN
OUT
TAPE2
CD
MROUT
CN103
CN101
CN941
IC101
Q991
Q114
Q113
Q272
Q271
J102
TR 赤
BTL
J101
CN108
ANP730
C CN1353
M CN5003

IC101
Q114
Q113
Q991
Q272
Q271

SIDE A

SIDE A

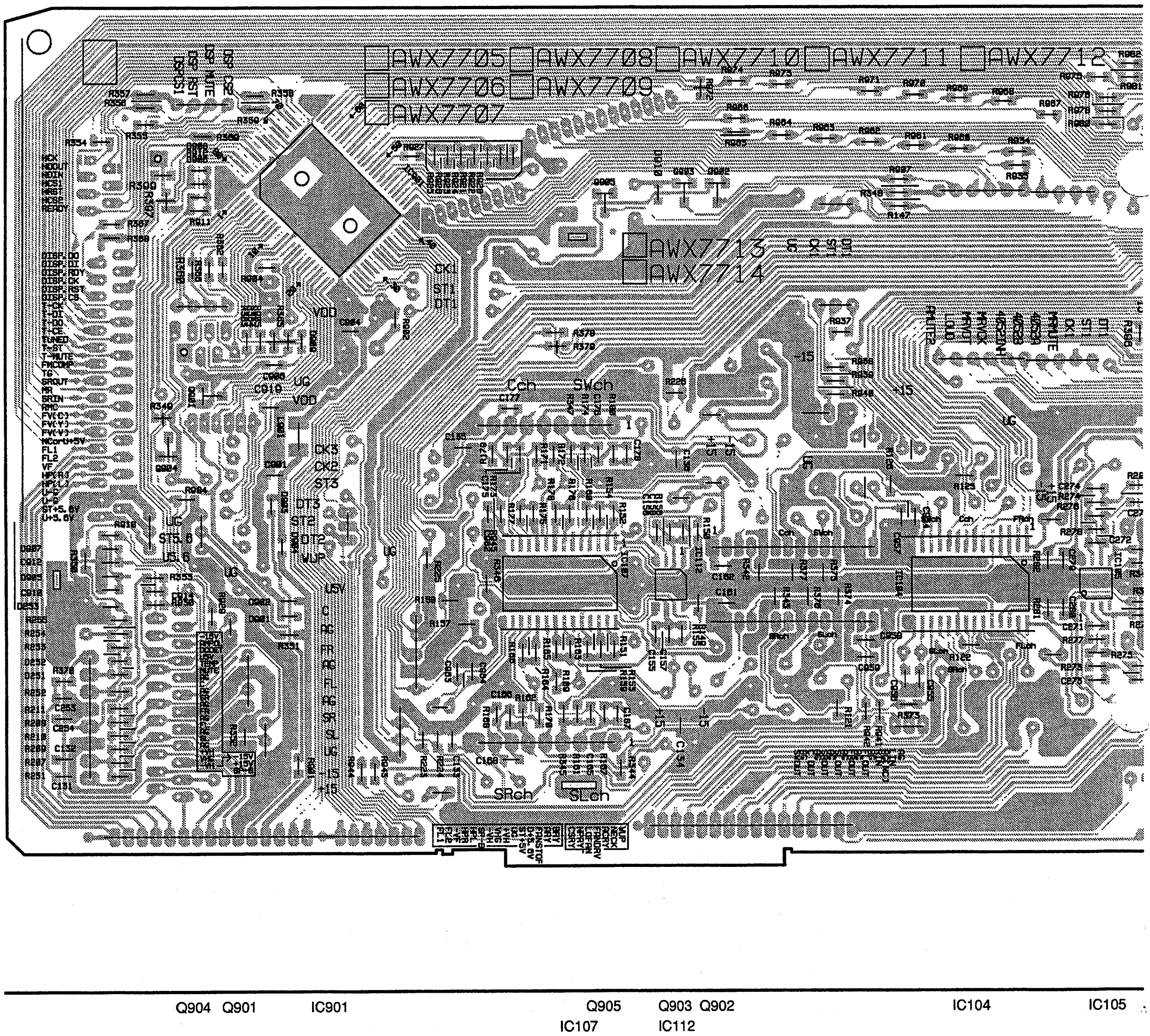

WARNING LEAD IN SOLDER IN THIS PRODUCT IS LISTED AS KNOWN REPRODUCTIVE TOXICANT BY THE CALIFORNIA HEALTH AND WELFARE AGENCY. ALSO, CERTAIN ELECTRICAL PARTS CONTAIN CHEMICAL LISTED AS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. (CALIFORNIA HEALTH & SAFETY CODE, SECTION 25249. 5) FOLLOW MANUFACTURE'S SERVICE INFORMATION AND USE PROPER PRECAUTIONS
Y CN9571
S CN7001
E CN501
CN903
CN904
CN105
CN104
CN920
CN901
CN918
CN910
CN917
IC114
IC113
IC115
R948
R949
R913
J103
C903
C902
C905
CMK-P3X
ANP7307-C
KNIFE
(ANP7307-C)
M CN5004
M CN5008
M CN5005

IC108 IC114 IC113 IC115

A

D MAIN CONTROL ASSY

B


AWX7705
AWX7708
AWX7710
AWX7711
AWX7712
AWX7706
AWX7709
AWX7707
AWX7713
AWX7714
CK1
ST1
DT1
VDD
UG
CK3
CK2
ST3
DT3
ST2
DT2
WUP
U5V
Cch
SWch
SRch
SLch
ST5.6
U5.6
+15
-15
Q904
Q901
IC901
Q905
IC107
Q903
Q902
IC112
IC104
IC105

C

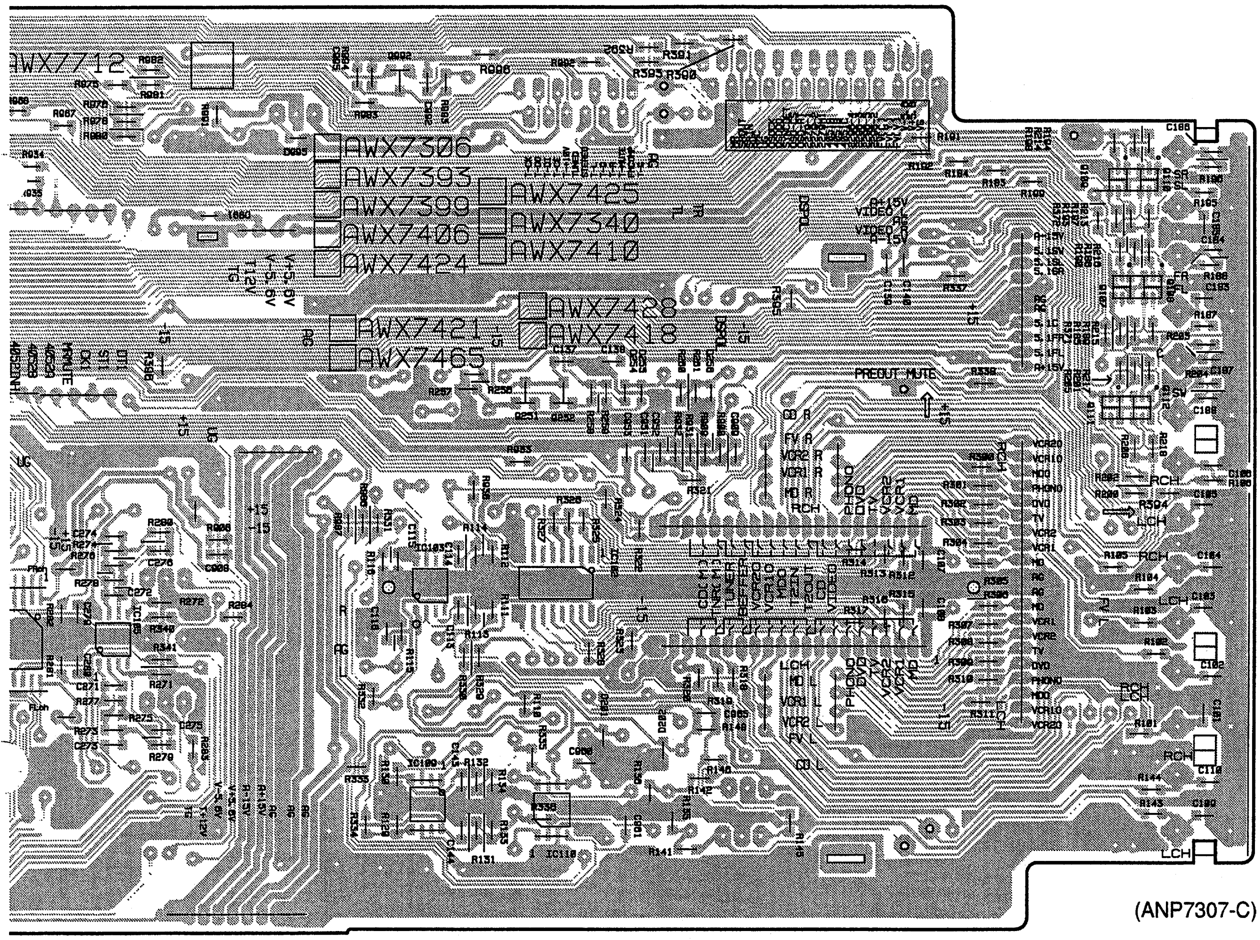
D

SIDE B

A

SIDE B

B


AWX7712
AWX7306
AWX7393
AWX7399
AWX7406
AWX7424
AWX7425
AWX7340
AWX7410
AWX7428
AWX7418
AWX7421
AWX7465
PREOUT MUTE
RCH
LCH

(ANP7307-C)

C

IC105

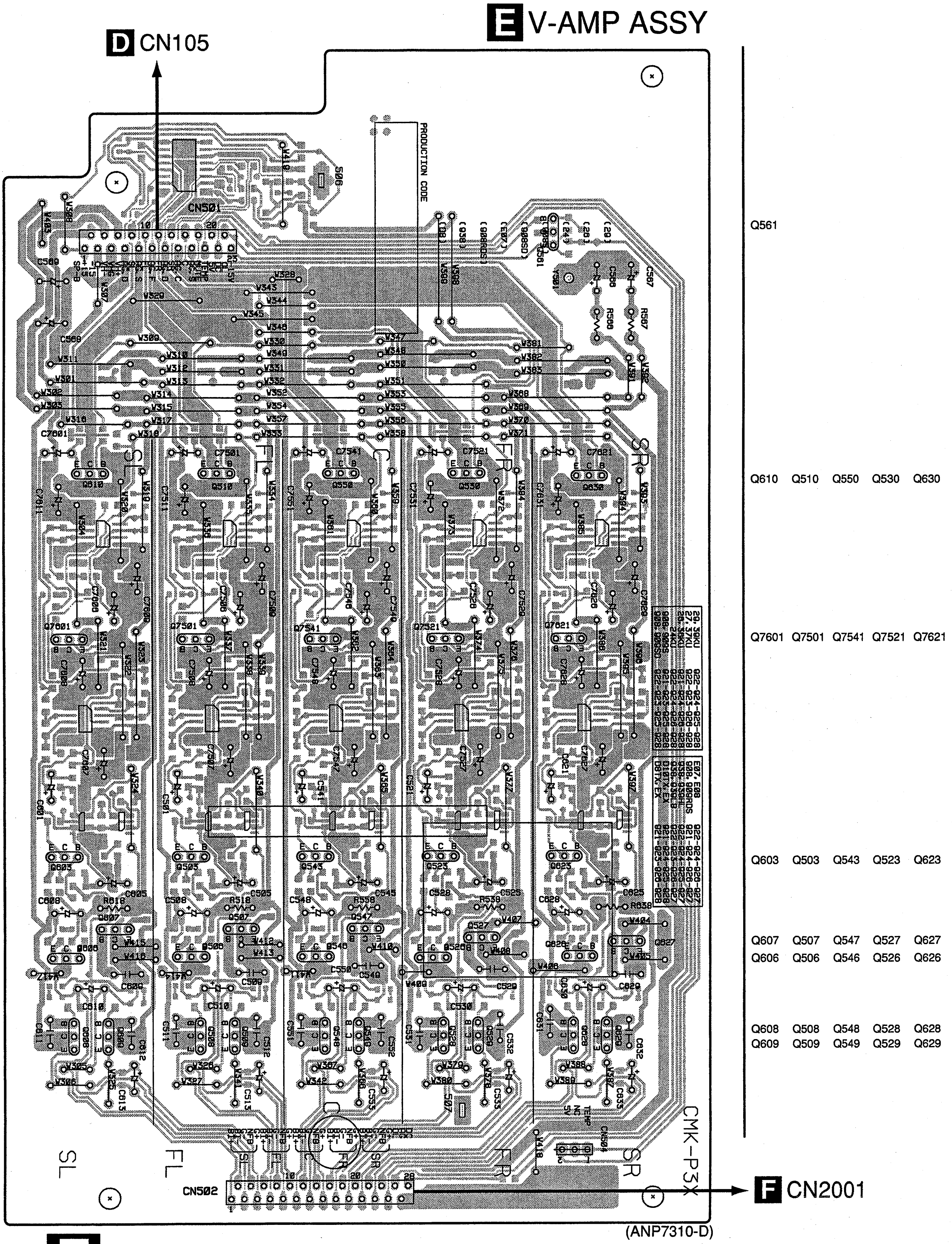
Q902
IC103
IC109

Q251 Q252
IC102
IC110

Q109 Q110
Q107 Q108
Q111 Q112

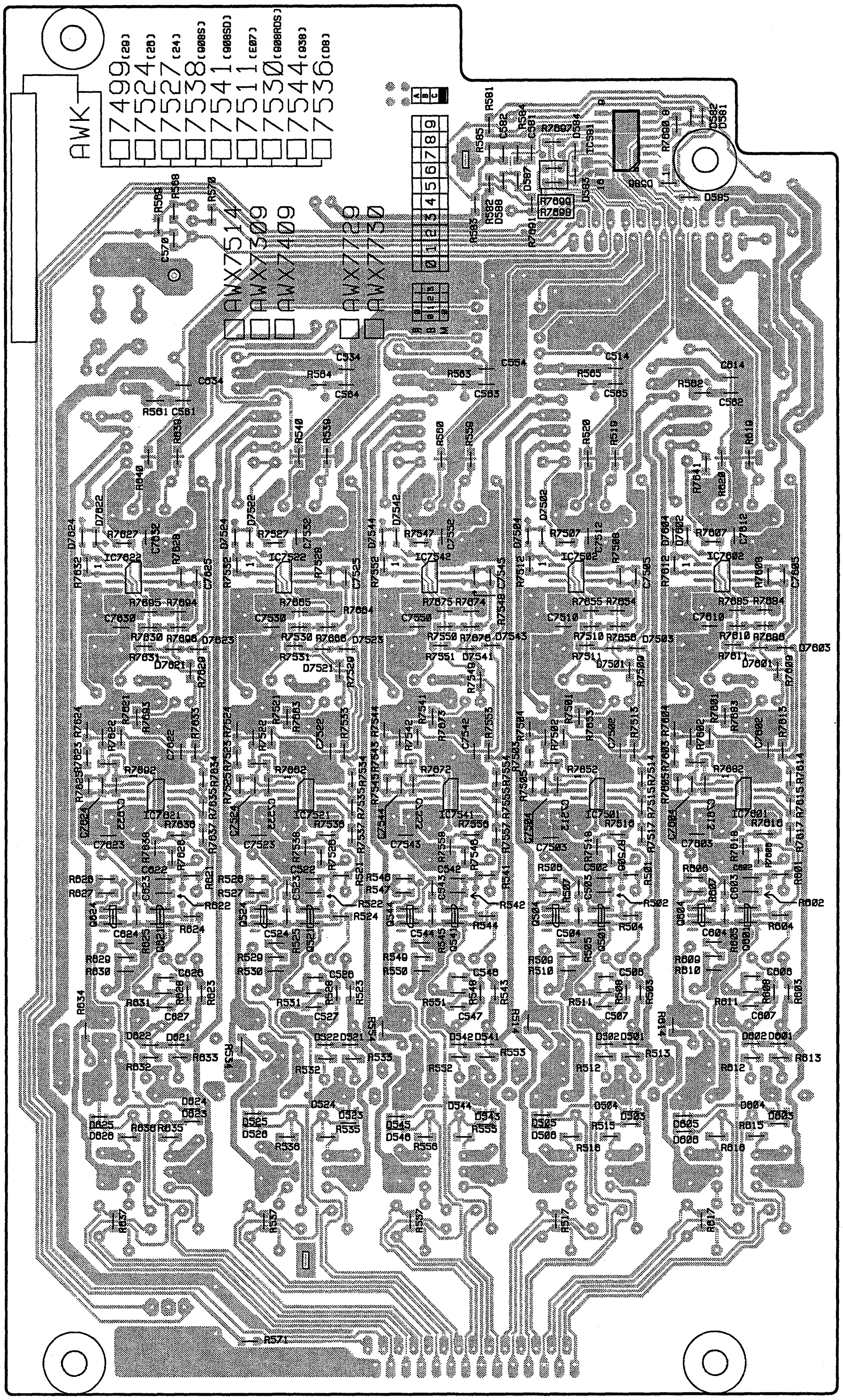
D

4.3 V-AMP ASSY


A
B
C
D
E V-AMP ASSY
D CN105
CN501
PRODUCTION CODE
CN502
F CN2001
SL
FL
C
FR
SR
CMK-P3X
(ANP7310-D)
Q561
Q610 Q510 Q550 Q530 Q630
Q7601 Q7501 Q7541 Q7521 Q7621
Q603 Q503 Q543 Q523 Q623
Q607 Q507 Q547 Q527 Q627
Q606 Q506 Q546 Q526 Q626
Q608 Q508 Q548 Q528 Q628
Q609 Q509 Q549 Q529 Q629

SIDE A

E V-AMP ASSY


AWK
7499 (29)
7524 (28)
7527 (24)
7538 (908S)
7541 (908SD)
7511 (E07)
7530 (908RDS)
7544 (938)
7536 (D8)
AWX7514
AWX7309
AWX7409
AWX7729
AWX7730
0 1 2 3 4 5 6 7 8 9
IC581
IC7622
IC7522
IC7542
IC7502
IC7602
IC7621
IC7521
IC7541
IC7501
IC7601
R571

IC581

IC7622 IC7522 IC7542 IC7502 IC7602

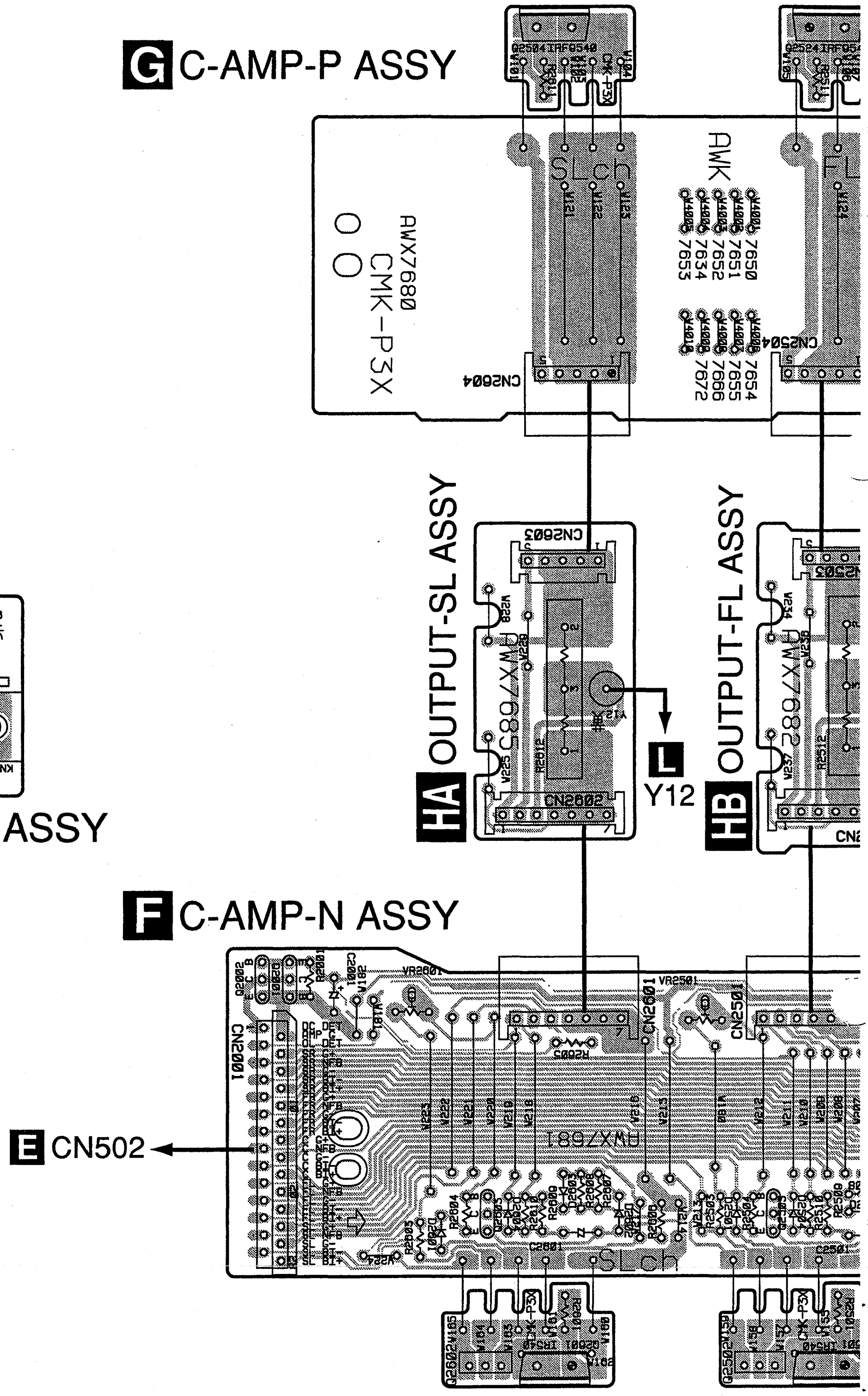
IC7621 IC7521 IC7541 IC7501 IC7601

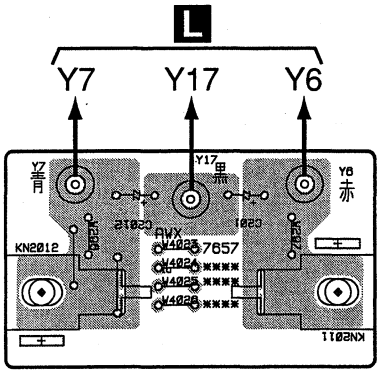
Q624 Q524 Q544 Q504 Q604
Q621 Q521 Q541 Q501 Q601

(ANP7310-F)

SIDE B

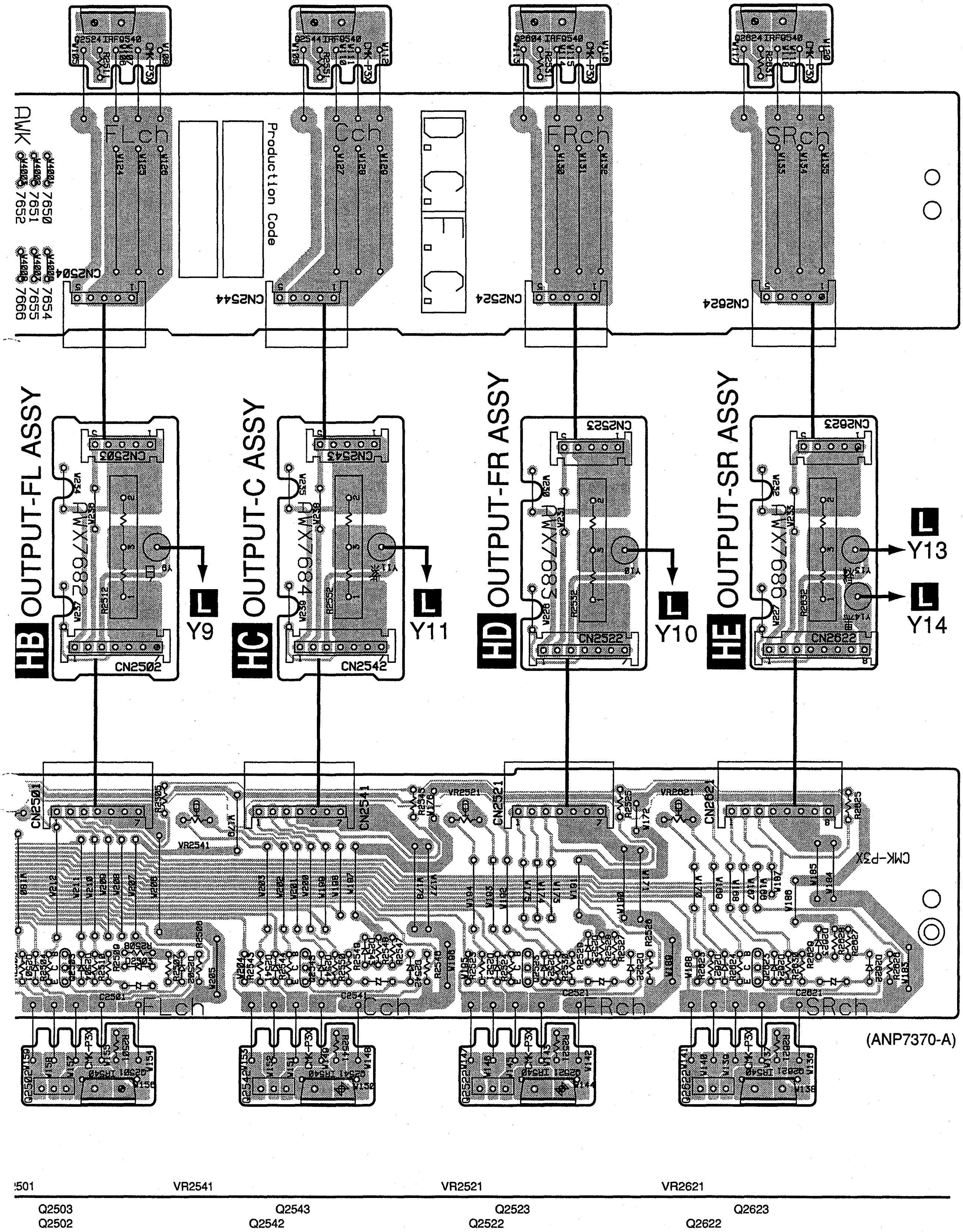
4.4 C-AMP-N, C-AMP-P, OUTPUT-SL, OUTPUT-FL, OUTPUT-C, OUTPUT-FR, OUTPUT-SR and VL-TERMINAL ASSYS


G C-AMP-P ASSY
Q2504 IRF9540
Q2524 IRF954
AWX7680
CMK-P3X
AWK
CN2604
CN2504
SLch
FLch
HA OUTPUT-SL ASSY
HB OUTPUT-FL ASSY
CN2603
CN2602
CN2503
L
Y12
AWX7683
F C-AMP-N ASSY
E CN502
CN2001
CN2601
CN2501
VR2601
VR2501
AWX7681
C2601
C2501
Q2602
Q2502
IRF540

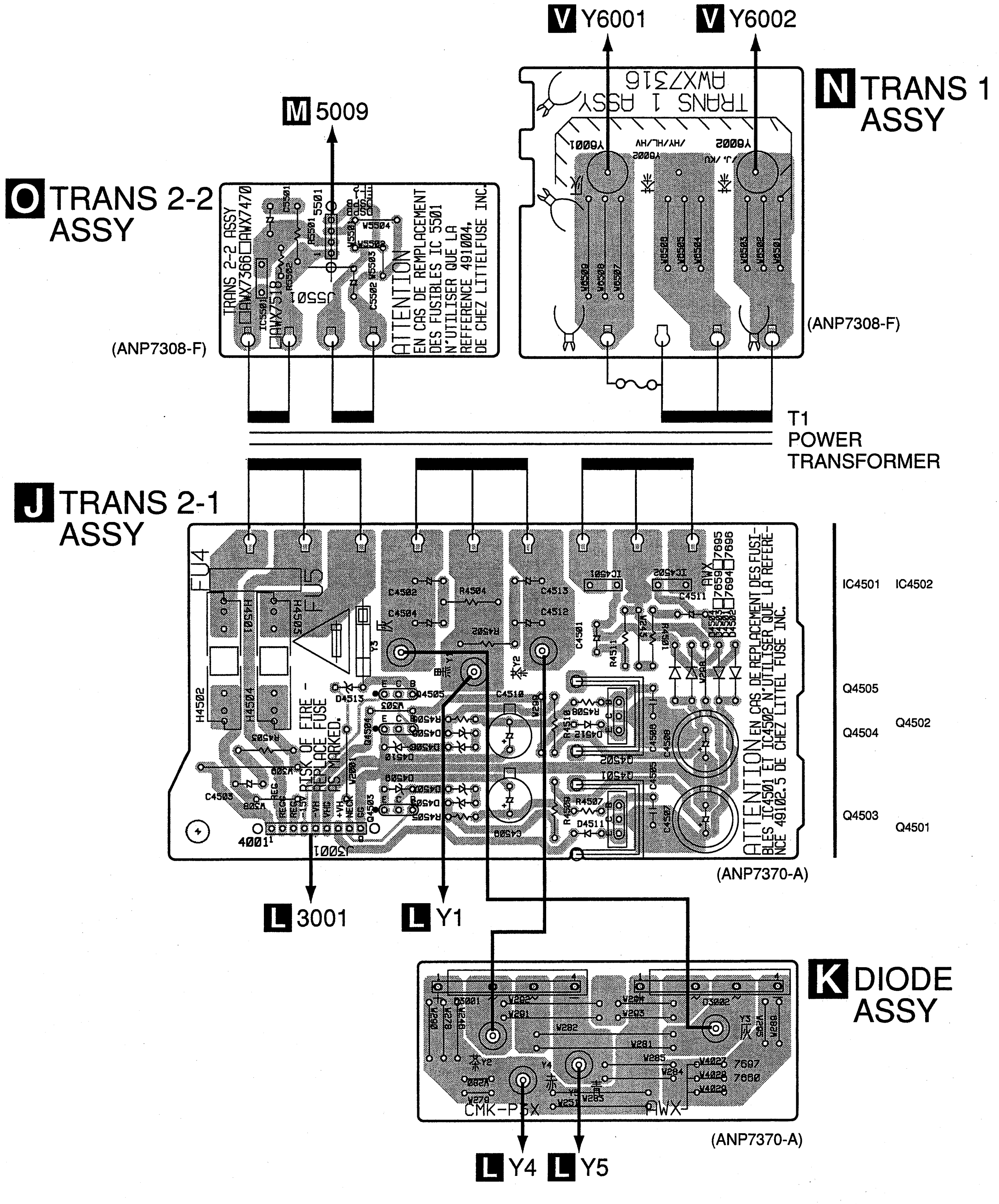

L
Y7
Y17
Y6
KN2012
KN2011
AWX
7657

I VL-TERMINAL ASSY

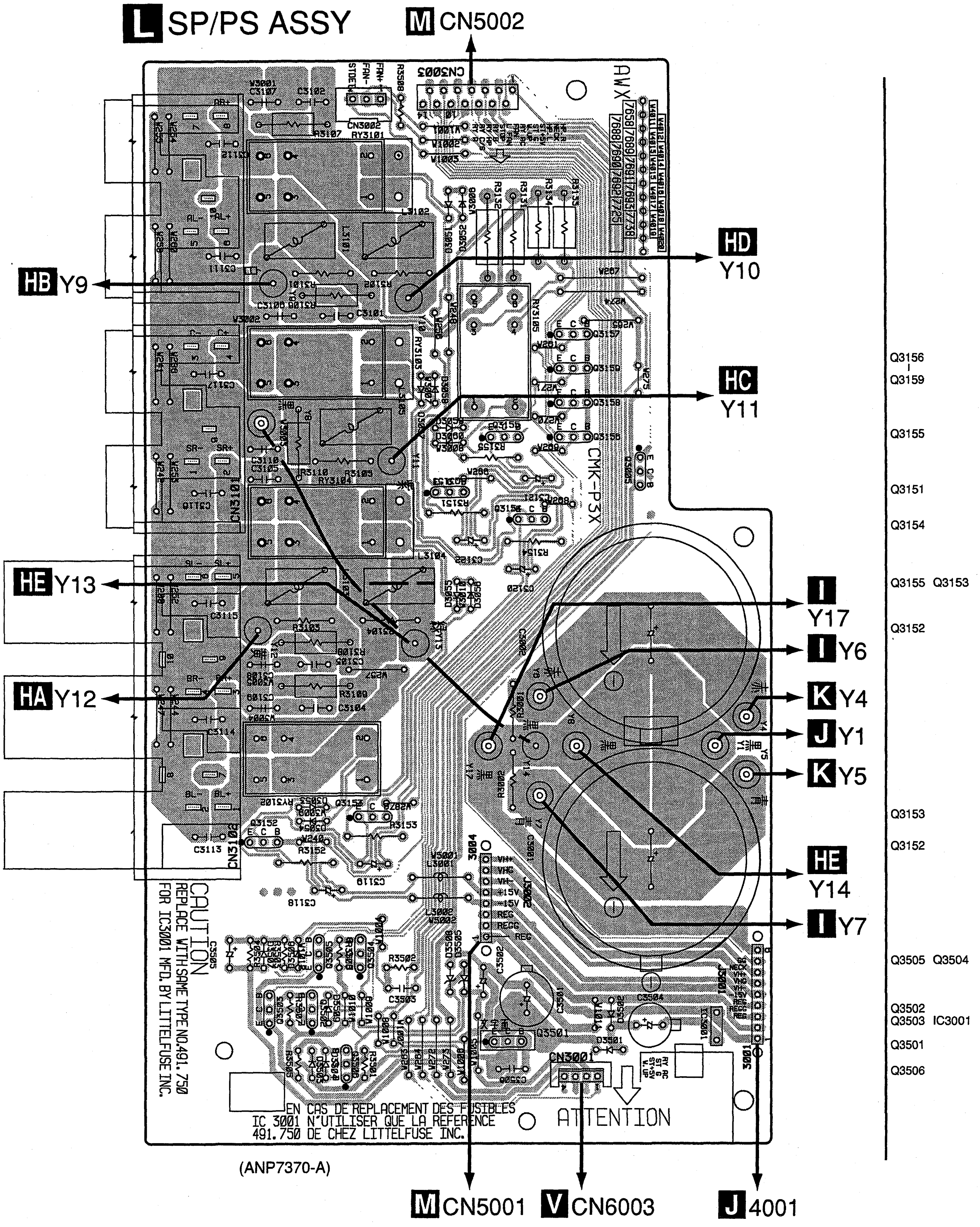
VR2601 VR2501
Q2002 Q2001 Q2603 Q2503
Q2602 Q2502


Q2524 IRF9540
Q2544 IRF9540
Q2604 IRF9540
Q2624 IRF9540
AWK
Production Code
FLch
Cch
FRch
SRch
D.C.F.C.
CN2504
CN2544
CN2524
CN2624
HB OUTPUT-FL ASSY
HC OUTPUT-C ASSY
HD OUTPUT-FR ASSY
HE OUTPUT-SR ASSY
CN2503
CN2543
CN2523
CN2623
CN2502
CN2542
CN2522
CN2622
L Y9
L Y11
L Y10
L Y13
L Y14
CN2501
CN2541
CN2521
CN2621
VR2541
VR2521
VR2621
CMK-P3X
C2501
C2541
C2521
C2621
(ANP7370-A)
Q2502
Q2542
Q2522
Q2622
:501
VR2541
VR2521
VR2621
Q2503
Q2543
Q2523
Q2623
Q2502
Q2542
Q2522
Q2622

4.5 TRANS 2-1, DIODE, TRANS 1 and TRANS 2-2 ASSYS

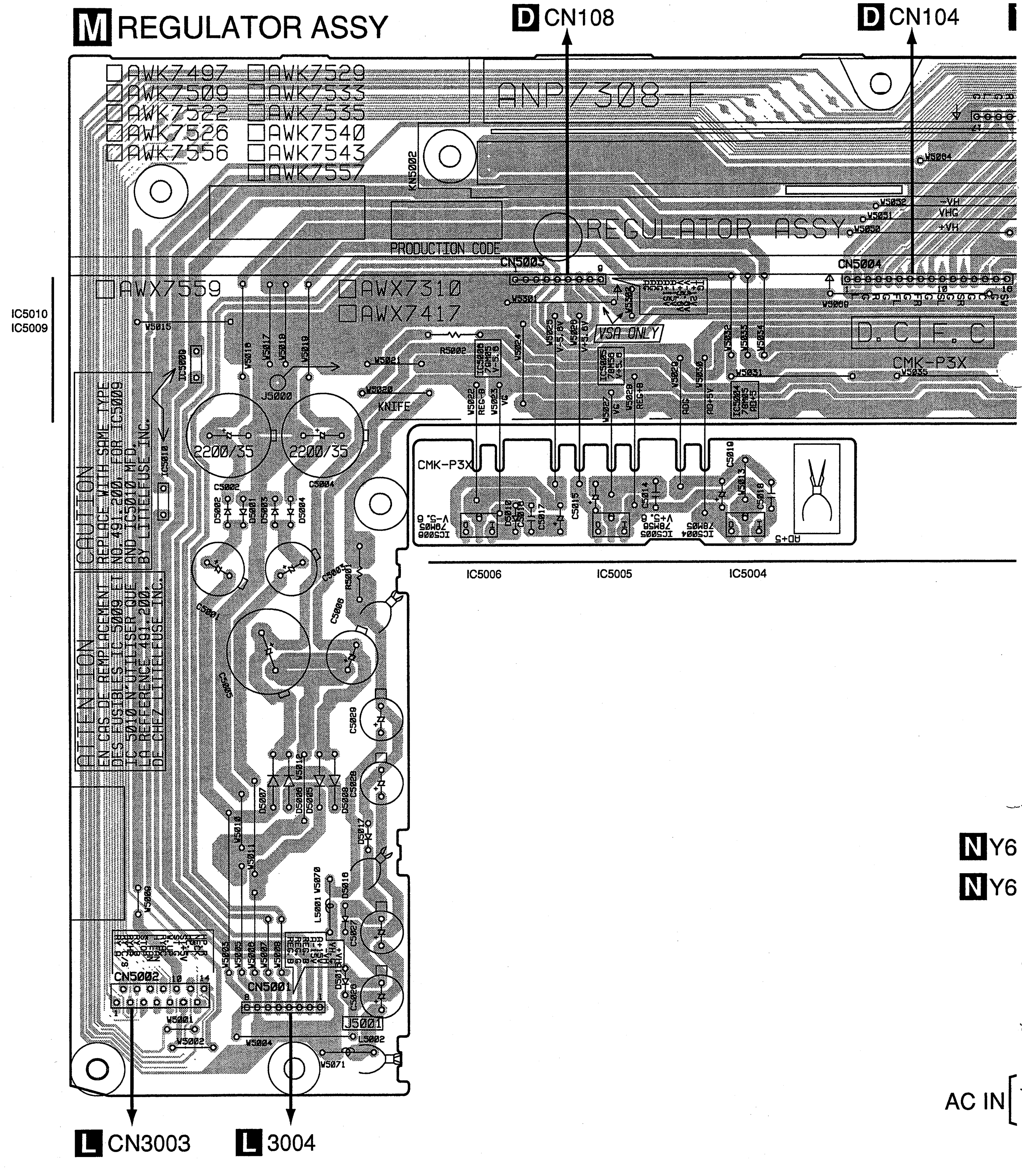

V Y6001
V Y6002
N TRANS 1 ASSY
AWX7316
TRANS 1 ASSY
M 5009
O TRANS 2-2 ASSY
ATTENTION
EN CAS DE REMPLACEMENT
DES FUSIBLES IC 5501
N'UTILISER QUE LA
REFFERENCE 491004.
DE CHEZ LITTELFUSE INC.
(ANP7308-F)
(ANP7308-F)
T1
POWER
TRANSFORMER
J TRANS 2-1 ASSY
RISK OF FIRE - REPLACE FUSE AS MARKED.
ATTENTION EN CAS DE REPLACEMENT DES FUSIBLES IC4501 ET IC4502 N'UTILISER QUE LA REFERENCE 49102.5 DE CHEZ LITTEL FUSE INC.
IC4501
IC4502
Q4505
Q4504
Q4502
Q4503
Q4501
(ANP7370-A)
L 3001
L Y1
K DIODE ASSY
CMK-P5X
AWX-
(ANP7370-A)
L Y4
L Y5

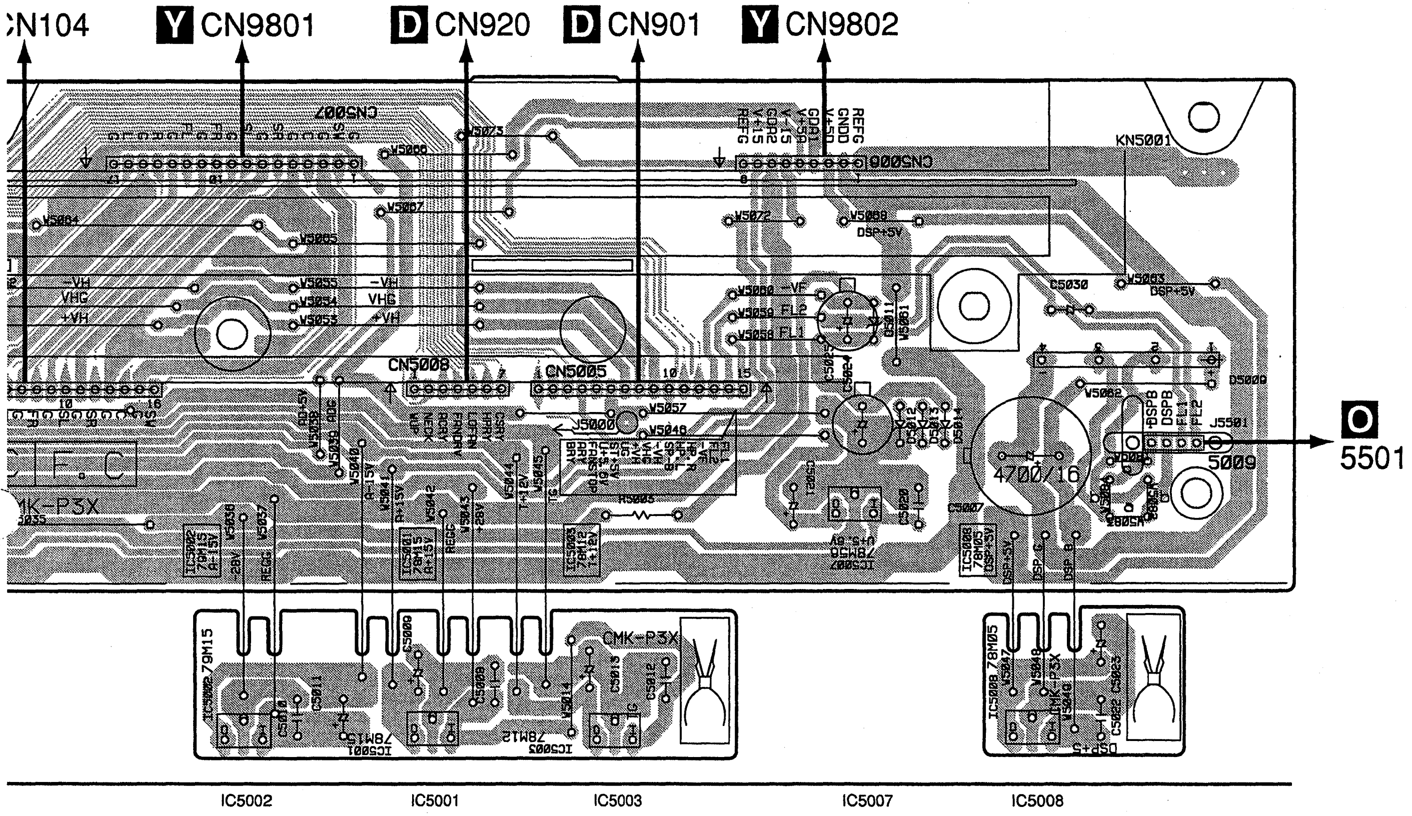
4.6 SP/PS ASSY

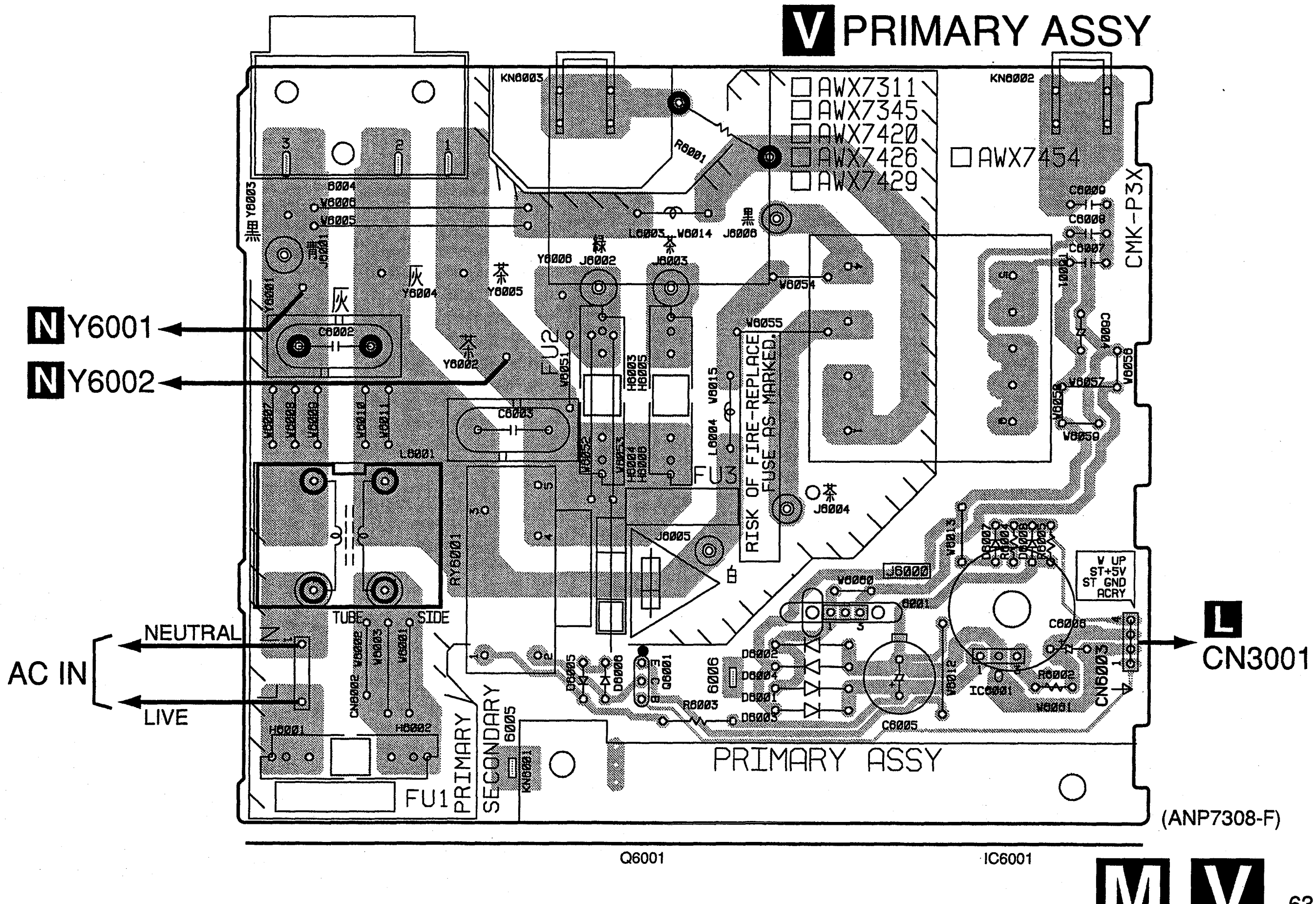

L SP/PS ASSY
M CN5002
CN3003
HB Y9
HD Y10
HC Y11
HE Y13
HA Y12
I Y17
I Y6
K Y4
J Y1
K Y5
HE Y14
I Y7
CN3101
CN3102
CN3002
CN3001
J3002
CMK-P3X
AWX
CAUTION
REPLACE WITH SAME TYPE NO.491.750
FOR IC3001 MFD. BY LITTELFUSE INC.
EN CAS DE REPLACEMENT DES FUSIBLES
IC 3001 N'UTILISER QUE LA REFERENCE
491.750 DE CHEZ LITTELFUSE INC.
ATTENTION
M CN5001
V CN6003
J 4001
Q3156
Q3159
Q3155
Q3151
Q3154
Q3155 Q3153
Q3152
Q3153
Q3152
Q3505 Q3504
Q3502
Q3503 IC3001
Q3501
Q3506

(ANP7370-A)

4.7 REGULATOR and PRIMARY ASSYS

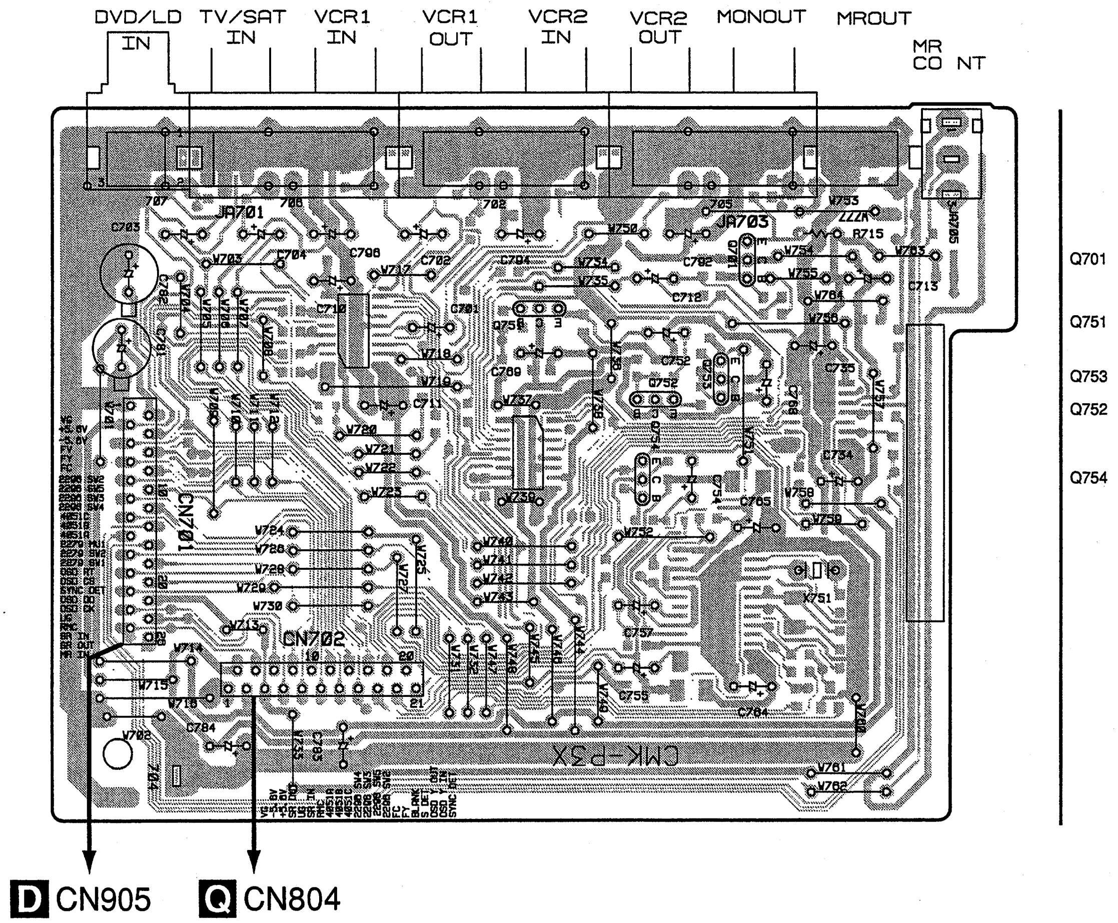

A
B
C
D
M REGULATOR ASSY
D CN108
D CN104
☐AWK7497 ☐AWK7529
☐AWK7509 ☐AWK7533
☐AWK7522 ☐AWK7535
☐AWK7526 ☐AWK7540
☐AWK7556 ☐AWK7543
☐AWK7557
ANP7308-F
REGULATOR ASSY
PRODUCTION CODE
KN5002
☐AWX7559
☐AWX7310
☐AWX7417
CN5003
CN5004
VSA ONLY
D.C F.C
CMK-P3X
-VH
VHG
+VH
IC5010
IC5009
CAUTION
REPLACE WITH SAME TYPE
NO. 491.200, FOR IC5009
AND IC5010 MFD.
BY LITTELFUSE INC.
ATTENTION
EN CAS DE REMPLACEMENT
DES FUSIBLES IC 5009 ET
IC 5010 N'UTILISER QUE
LA REFERENCE 491.200,
DE CHEZ LITTELFUSE INC.
J5000
KNIFE
R5002
2200/35
2200/35
C5002
C5004
C5001
C5003
C5005
C5006
R5001
D5001
D5002
D5003
D5004
D5005
D5006
D5007
D5008
D5017
C5020
C5028
C5027
L5001
CN5002
CN5001
J5001
L5002
IC5006
IC5005
IC5004
AD+5
N Y6
N Y6
AC IN
L CN3003
L 3004


CN104
Y CN9801
D CN920
D CN901
Y CN9802
CN5007
CN5006
KN5001
CN5008
CN5005
-VH
VHG
+VH
DSP+5V
FL2
FL1
J5000
J5501
4700/16
O 5501
5009
CMK-P3X
IC5002 79M15
IC5001 78M15
IC5003 78M12
IC5007 78M05
IC5008 78M05
IC5002
IC5001
IC5003
IC5007
IC5008


V PRIMARY ASSY
KN6003
KN6002
☐ AWX7311
☐ AWX7345
☐ AWX7420
☐ AWX7426
☐ AWX7429
☐ AWX7454
CMK-P3X
N Y6001
N Y6002
FU2
FU3
RISK OF FIRE-REPLACE FUSE AS MARKED.
RY6001
NEUTRAL
AC IN
LIVE
TUBE
SIDE
FU1
PRIMARY
SECONDARY
PRIMARY ASSY
W UP ST+5V ST GND ACRY
L CN3001
CN6003
IC6001
(ANP7308-F)
Q6001
IC6001

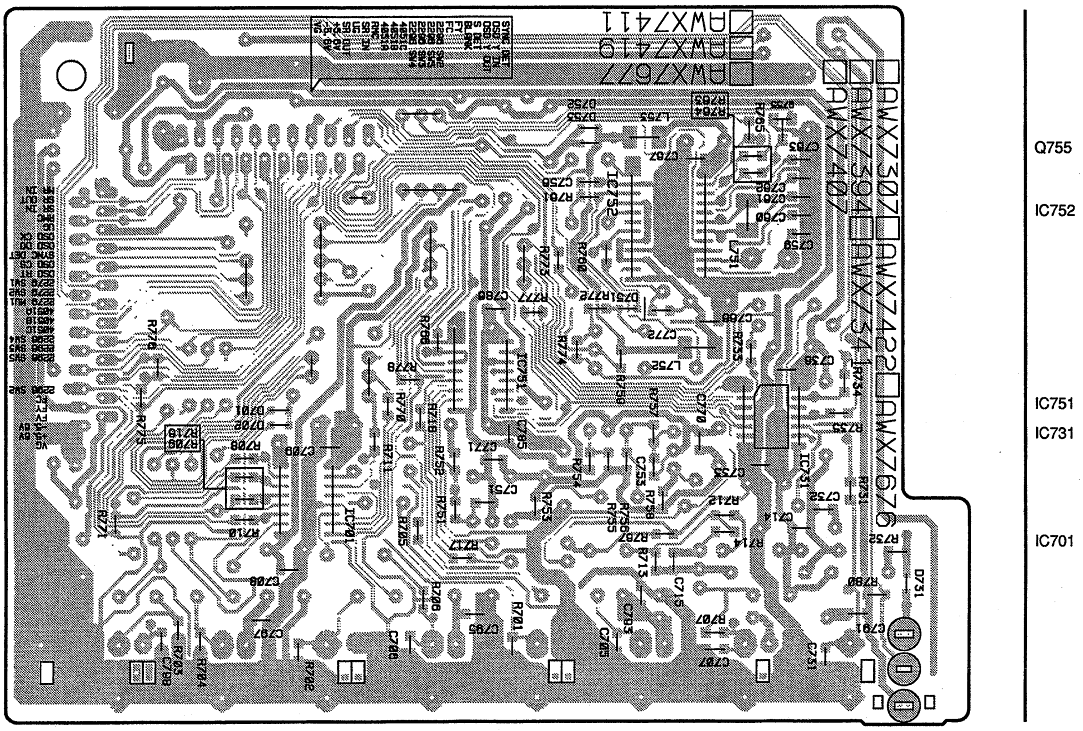
4.8 VIDEO ASSY

P VIDEO ASSY


DVD/LD IN
TV/SAT IN
VCR1 IN
VCR1 OUT
VCR2 IN
VCR2 OUT
MONOUT
MROUT
MR CO NT
JA701
JA703
CN701
CN702
CMK-P3X
Q701
Q751
Q753
Q752
Q754
D CN905
Q CN804

SIDE A

P VIDEO ASSY

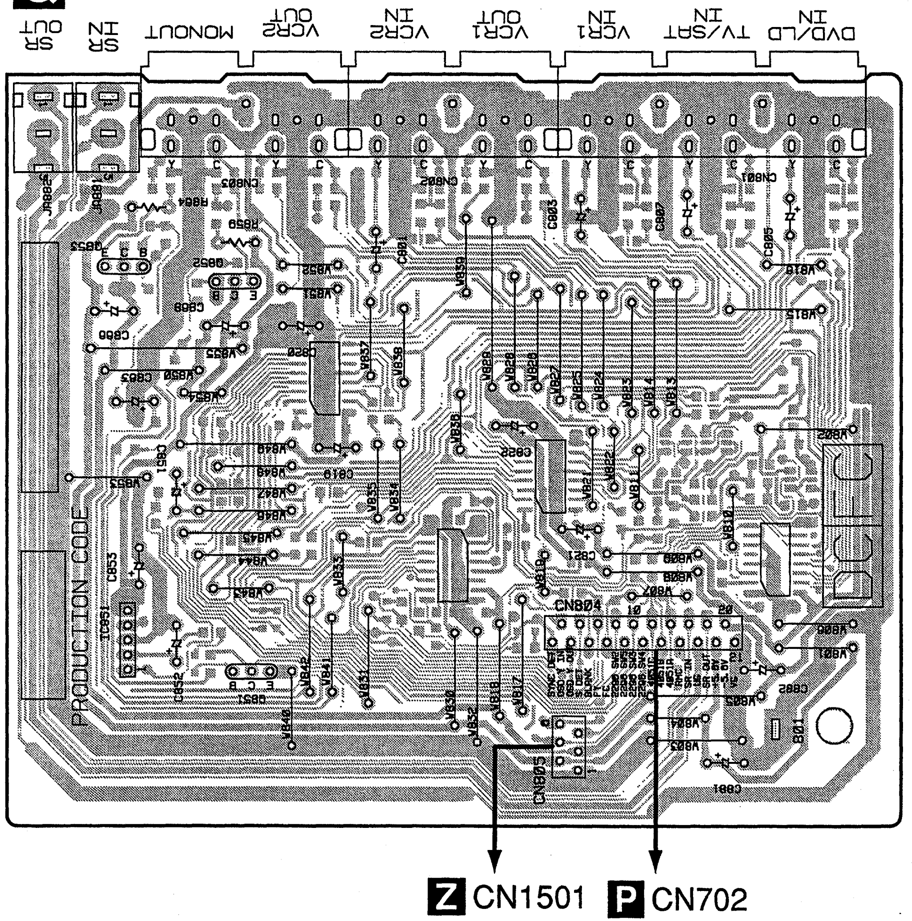

AWX7411
AWX7419
AWX7677
AWX7307
AWX7394
AWX7407
AWX7422
AWX7341
AWX7676
IC752
IC751
IC731
IC701
Q755

SIDE B

(ANP7307-C)

4.9 S-VIDEO ASSY

Q S-VIDEO ASSY


SR OUT
SR IN
MONOUT
VCR2 OUT
VCR2 IN
VCR1 OUT
VCR1 IN
TV/SAT IN
DVD/LD IN
CN805
CN804
PRODUCTION CODE
Z CN1501
P CN702

A

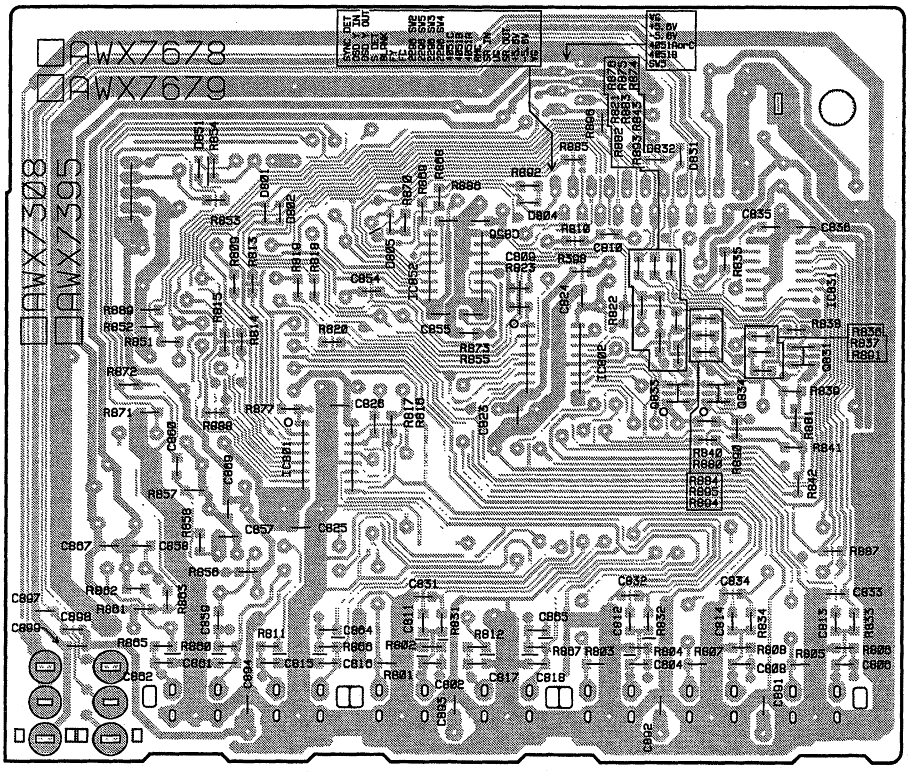
Q853 Q852

B

IC851 Q851

SIDE A

Q S-VIDEO ASSY


AWX7678
AWX7679
AWX7308
AWX7395

C

IC852 IC831

IC802 Q831

Q833 Q834

IC801

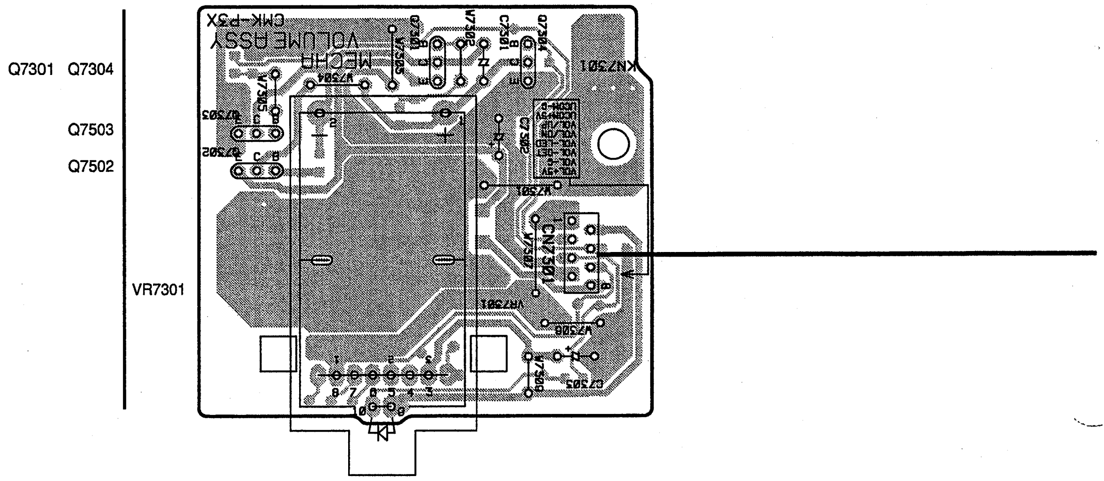
D

SIDE B

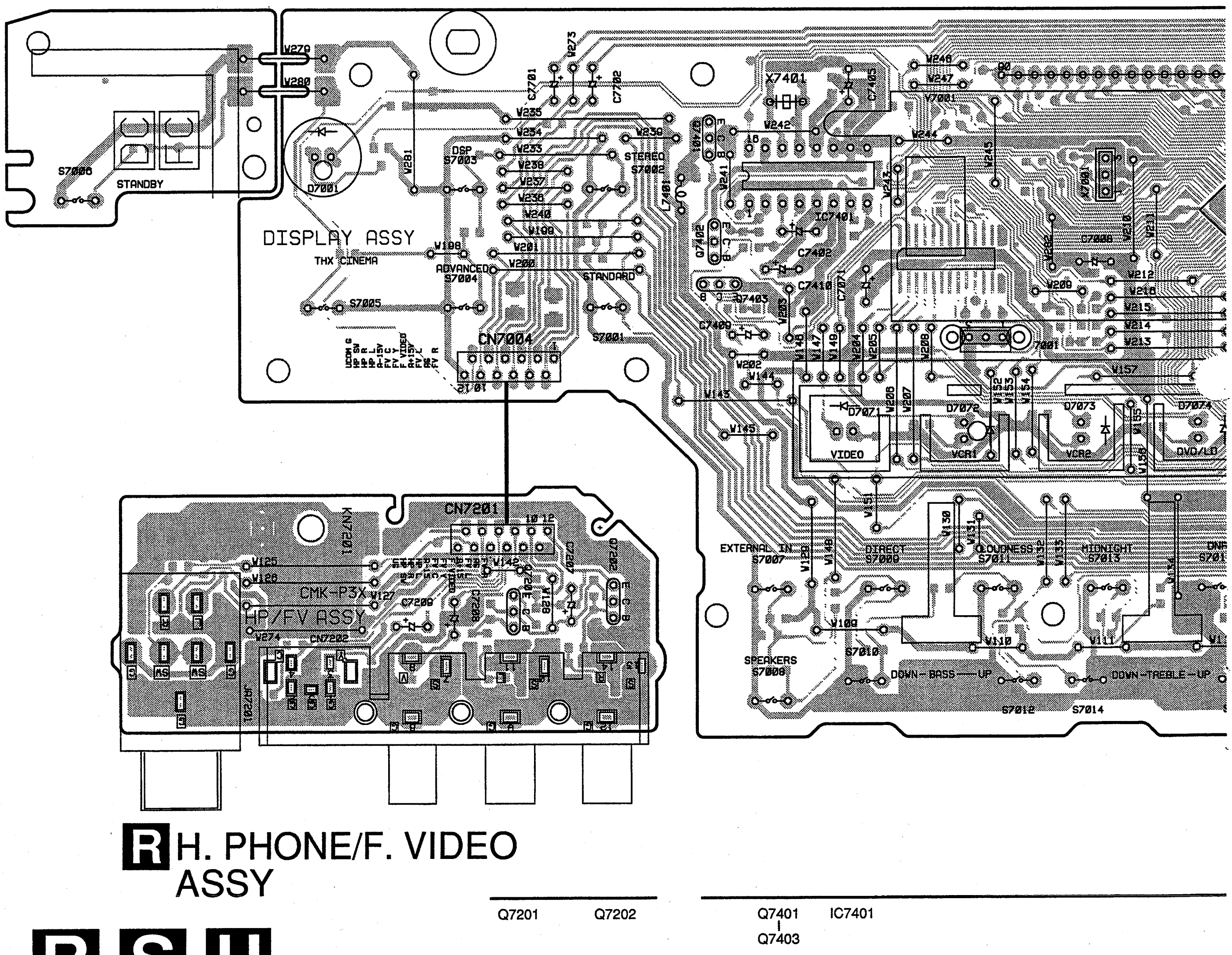
(ANP7307-C)

4.10 H. PHONE/F. VIDEO, DISPLAY, ROTARY ENCODER and VOLUME ASSYS

U VOLUME ASSY

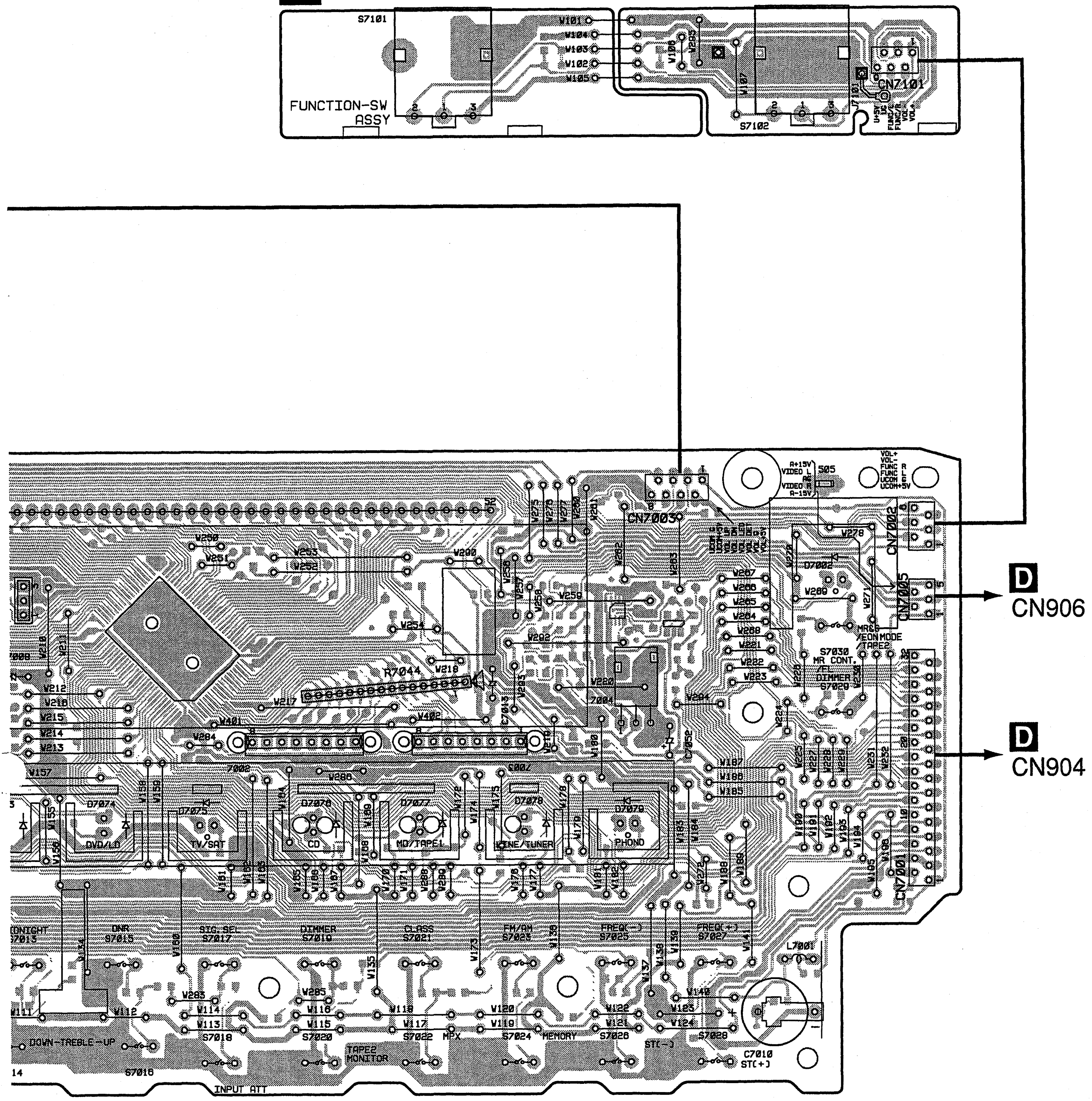

Q7301 Q7304
Q7503
Q7502
VR7301
CMK-P3X
VOLUME ASSY
MECHA
KN7301
CN7301
VR7301
C7303

S DISPLAY ASSY


S7006
STANDBY
D7001
DISPLAY ASSY
THX CINEMA
DSP S7003
STEREO S7002
ADVANCED S7004
STANDARD
S7005
S7001
CN7004
X7401
IC7401
D7071
VIDEO
D7072
VCR1
D7073
VCR2
D7074
DVD/LD
EXTERNAL IN S7007
DIRECT S7009
LOUDNESS S7011
MIDNIGHT S7013
SPEAKERS S7008
S7010
DOWN - BASS - UP
DOWN - TREBLE - UP
S7012
S7014
CN7201
KN7201
CMK-P3X
HP/FV ASSY
CN7202
J7201
Q7201 Q7202
Q7401 - Q7403 IC7401

R H. PHONE/F. VIDEO ASSY

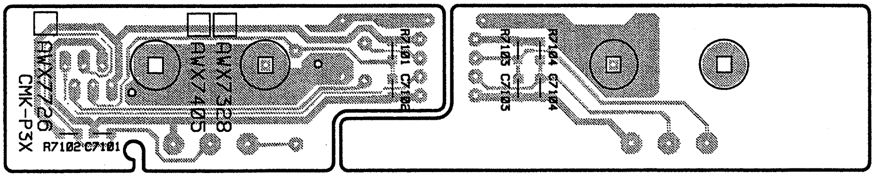
T ROTARY ENCODER ASSY


S7101
FUNCTION-SW ASSY
W101
W104
W103
W102
W105
W106
W205
W107
S7102
J7101
CN7101
CN7003
CN7002
CN7005
CN7001
D
CN906
D
CN904
R7044
D7002
D7074
D7075
D7076
D7077
D7078
D7079
DVD/LD
TV/SAT
CD
MD/TAPE1
LINE/TUNER
PHONO
S7030 MR CONT.
DIMMER
S7029
MRC/EON MODE TAPE2
MIDNIGHT S7013
DNR S7015
STG.SEL S7017
DIMMER S7019
CLASS S7021
FM/AM S7023
FREQ(-) S7025
FREQ(+) S7027
DOWN-TREBLE-UP
S7016
S7018
S7020
S7022
MPX
S7024
MEMORY
S7026
S7028
TAPE2 MONITOR
INPUT ATT
ST(-)
ST(+)
C7010
L7001
A+15V
VIDEO L
VIDEO R
A-15V
S05
VOL+
VOL-
FUNC R
FUNC L
UCOM G
UCOM+5V

(ANP7310-D)

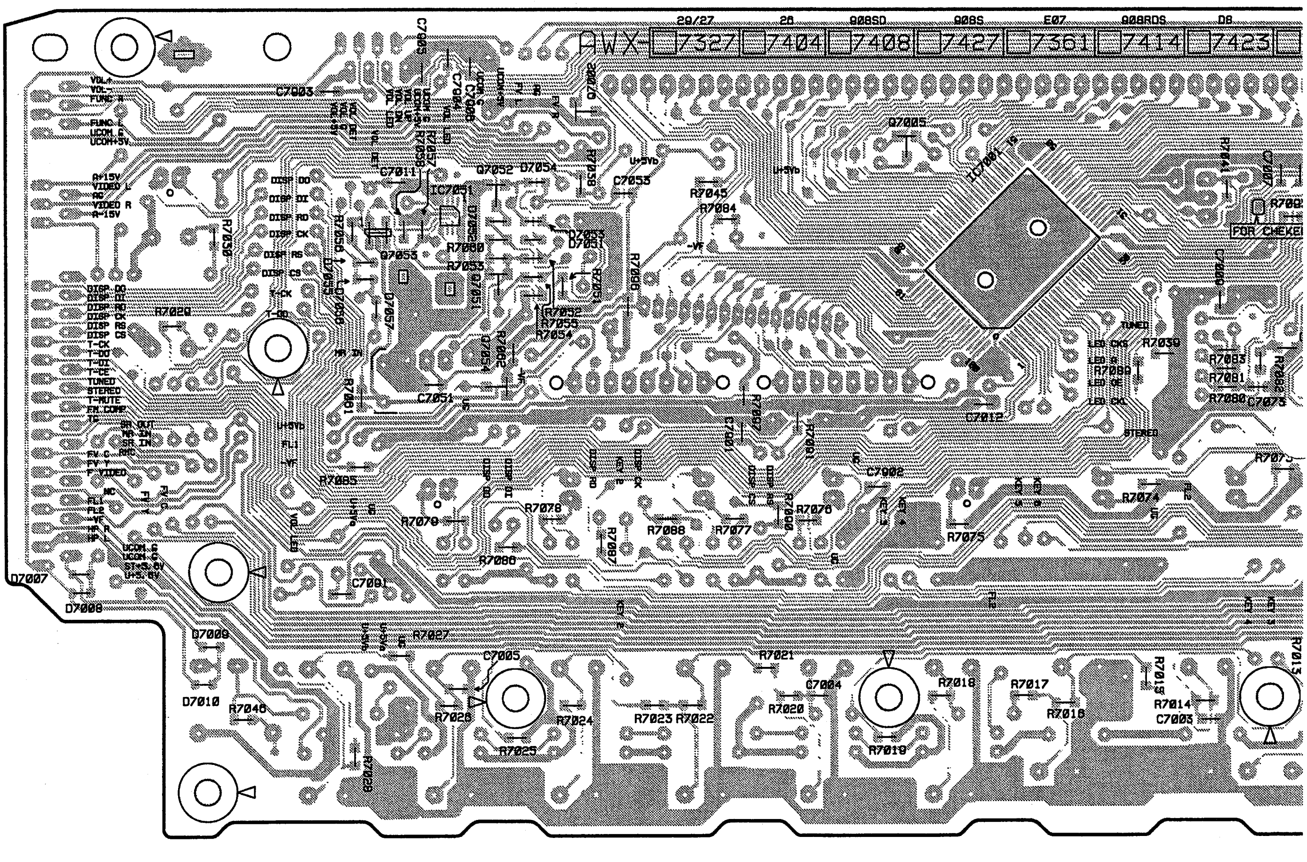
A

T ROTARY ENCODER ASSY


AWX7726
CMK-P3X
AWX7328
AWX7405
R7101 C7102
R7102 C7101
R7103 C7103
R7104 C7104

B

S DISPLAY ASSY


29/27
28
908SD
908S
E07
908RDS
D8
AWX-7327 7404 7408 7427 7361 7414 7423
FOR CHEKER
IC7001
IC7051
Q7005
Q7052
Q7053
Q7051
Q7054
D7054
D7007
D7008
D7009
D7010
C7003
C7011
C7012
C7051
C7053
C7001
C7002
C7004
C7005
C7073
R7029
R7030
R7045
R7084
R7080
R7083
R7081
R7082
R7053
R7055
R7054
R7085
R7070
R7078
R7086
R7088
R7077
R7076
R7075
R7074
R7027
R7021
R7018
R7017
R7019
R7016
R7014
R7013
R7020
R7022
R7023
R7024
R7025
R7026
R7028
R7040
VOL+
VOL-
FUNC A
A+15V
VIDEO L
VIDEO R
DISP D0
DISP D1
DISP RD
DISP CK
DISP RS
DISP CS
T-CK
T-DO
T-DI
T-CE
TUNED
STEREO
T-MUTE
FL1
FL2
LED CKS
LED CK
U+5Vb
-VF

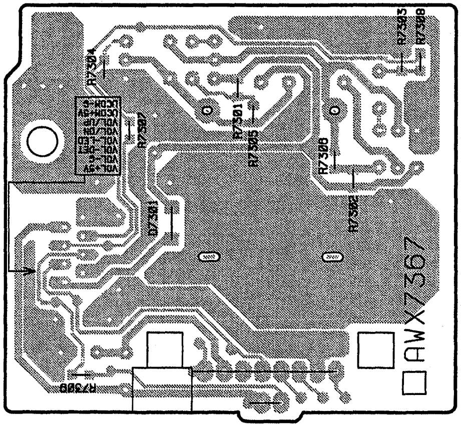
C

D

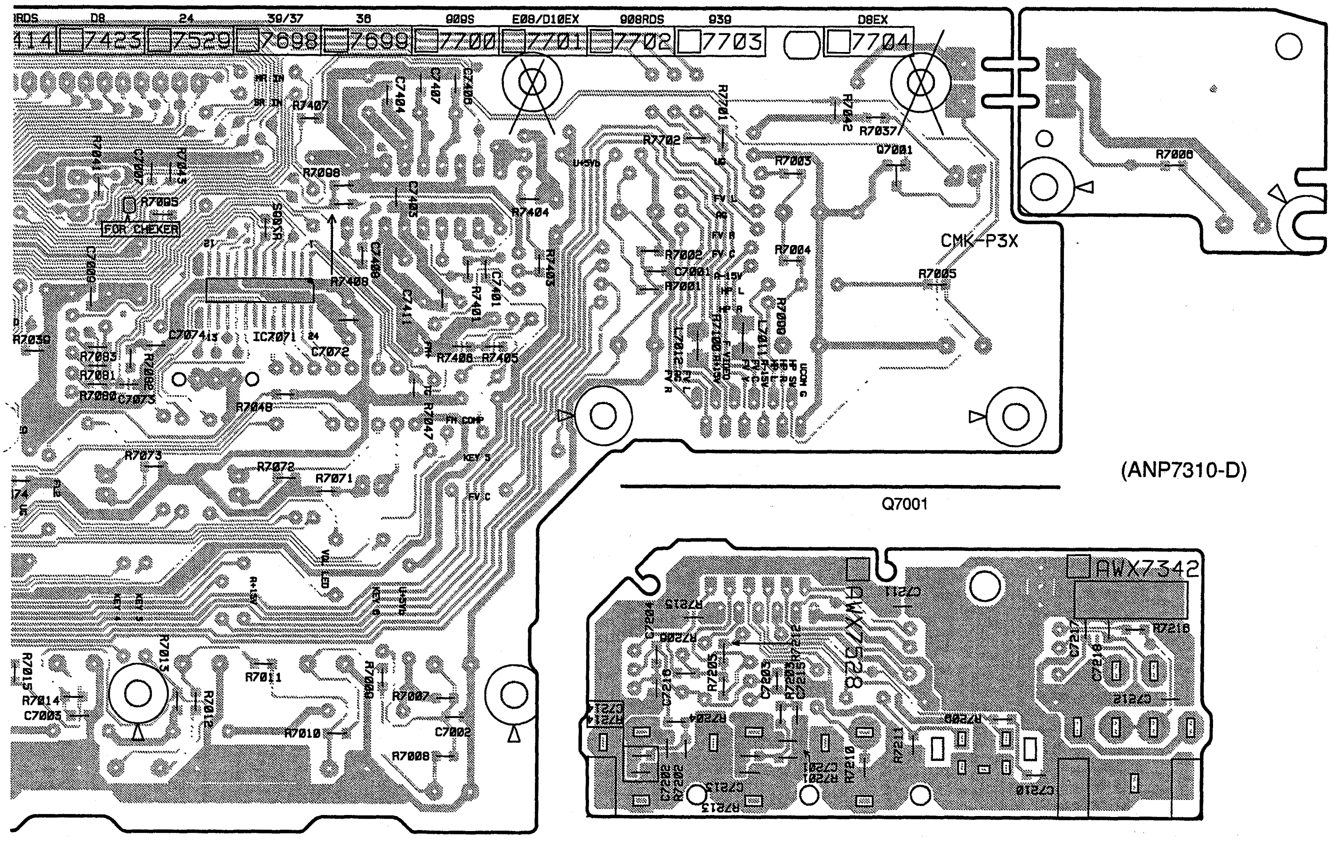
Q7053 Q7052 Q7002 Q7005 IC7001
IC7051
Q7051 Q7054

A

U VOLUME ASSY


R7304
R7303
R7308
R7307
R7301
R7305
R7306
R7302
D7301
R7309
VOL+5V
VOL-G
VOL-DET
VOL-LED
VOL/DN
VOL/UP
LCDH+5V
LCDH-G
AWX7367

B


RDS
D8
24
39/37
38
909S
E08/D10EX
908RDS
939
D8EX
7414
7423
7529
7698
7699
7700
7701
7702
7703
7704
R7407
C7404
C7407
C7406
R7701
R7042
R7037
Q7001
R7702
R7003
R7041
C7007
R7043
R7098
R7095
FOR CHEKER
C7405
R7404
R7000
SD0SH
R7408
C7408
C7411
R7401
C7401
R7403
R7002
C7001
R7001
R7004
CMK-P3X
R7005
R7008
C7006
R7030
C7074
IC7071
C7072
R7093
R7092
R7081
R7080
C7073
R7406
R7405
R7048
R7047
FM COMP
KEY 5
R7073
R7072
R7071
FV.C
R7015
R7013
R7014
C7003
R7011
R7012
R7009
R7010
R7007
C7002
R7008
AWX7342
AWX7328
C7211
R7215
C7204
R7206
C7216
R7205
C7203
R7216
C7217
C7218
C7212
R7214
R7204
R7209
R7211
R7212
C7202
R7202
C7213
R7213
C7201
R7201
R7210
C7210

(ANP7310-D)

Q7001

C

R H. PHONE/F. VIDEO ASSY

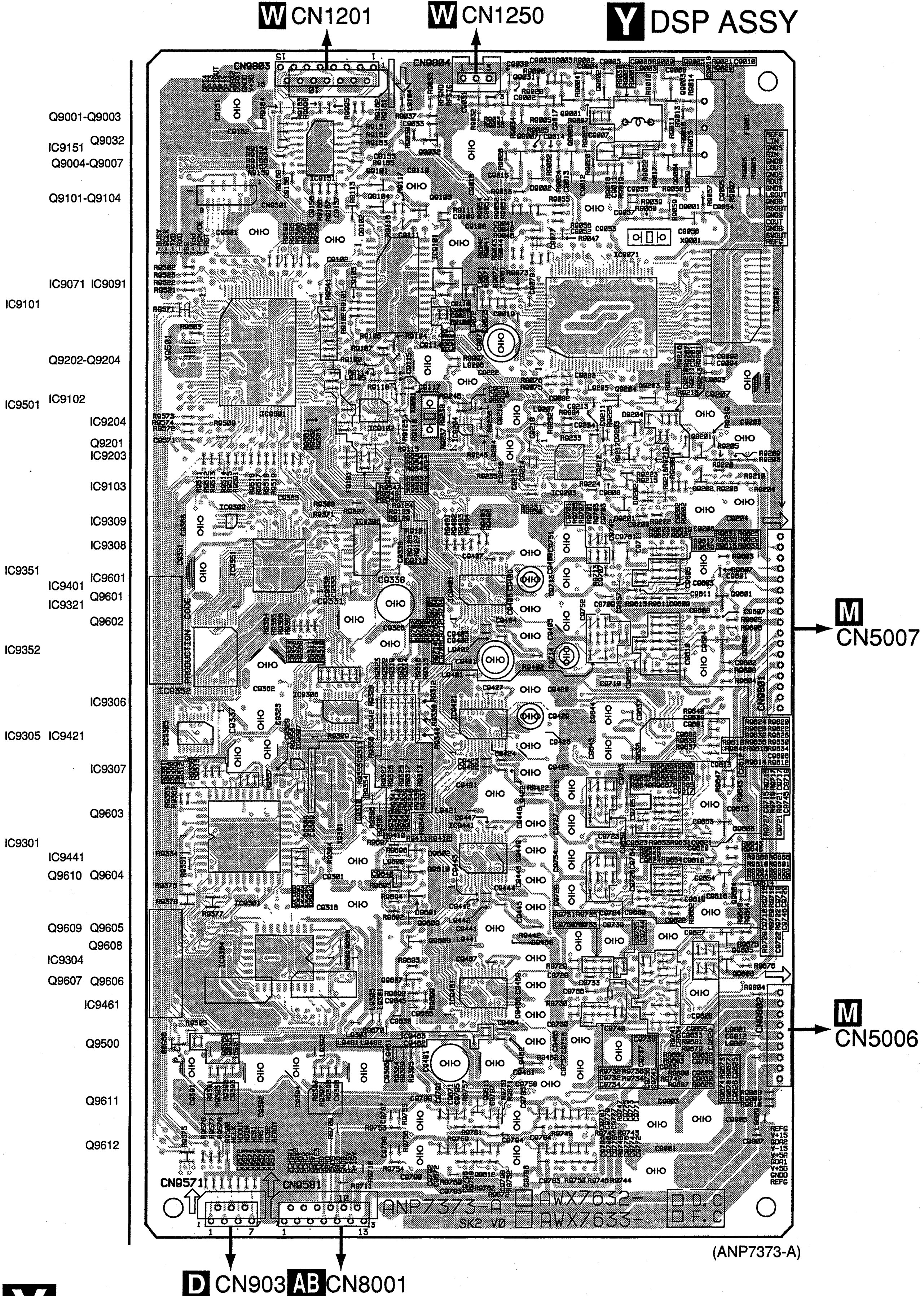
D

IC7071

SIDE B

R S U

4.11 DSP ASSY


W CN1201
W CN1250
Y DSP ASSY
A
B
C
D
Q9001-Q9003
Q9032
IC9151
Q9004-Q9007
Q9101-Q9104
IC9071 IC9091
IC9101
Q9202-Q9204
IC9501
IC9102
IC9204
Q9201
IC9203
IC9103
IC9309
IC9308
IC9351
IC9601
IC9401
Q9601
IC9321
Q9602
IC9352
IC9306
IC9305 IC9421
IC9307
Q9603
IC9301
IC9441
Q9610 Q9604
Q9609 Q9605
Q9608
IC9304
Q9607 Q9606
IC9461
Q9500
Q9611
Q9612
CN9803
CN9804
CN9801
CN9802
CN9571
CN9581
PRODUCTION CODE
ANP7373-A
AWX7632-
AWX7633-
SK2 V0
D.C
F.C
M CN5007
M CN5006
D CN903
AB CN8001
(ANP7373-A)

Y DSP ASSY

IC9041

IC9201
Q9205
IC9202

IC9701

IC9602

IC9702

IC9601

IC9703

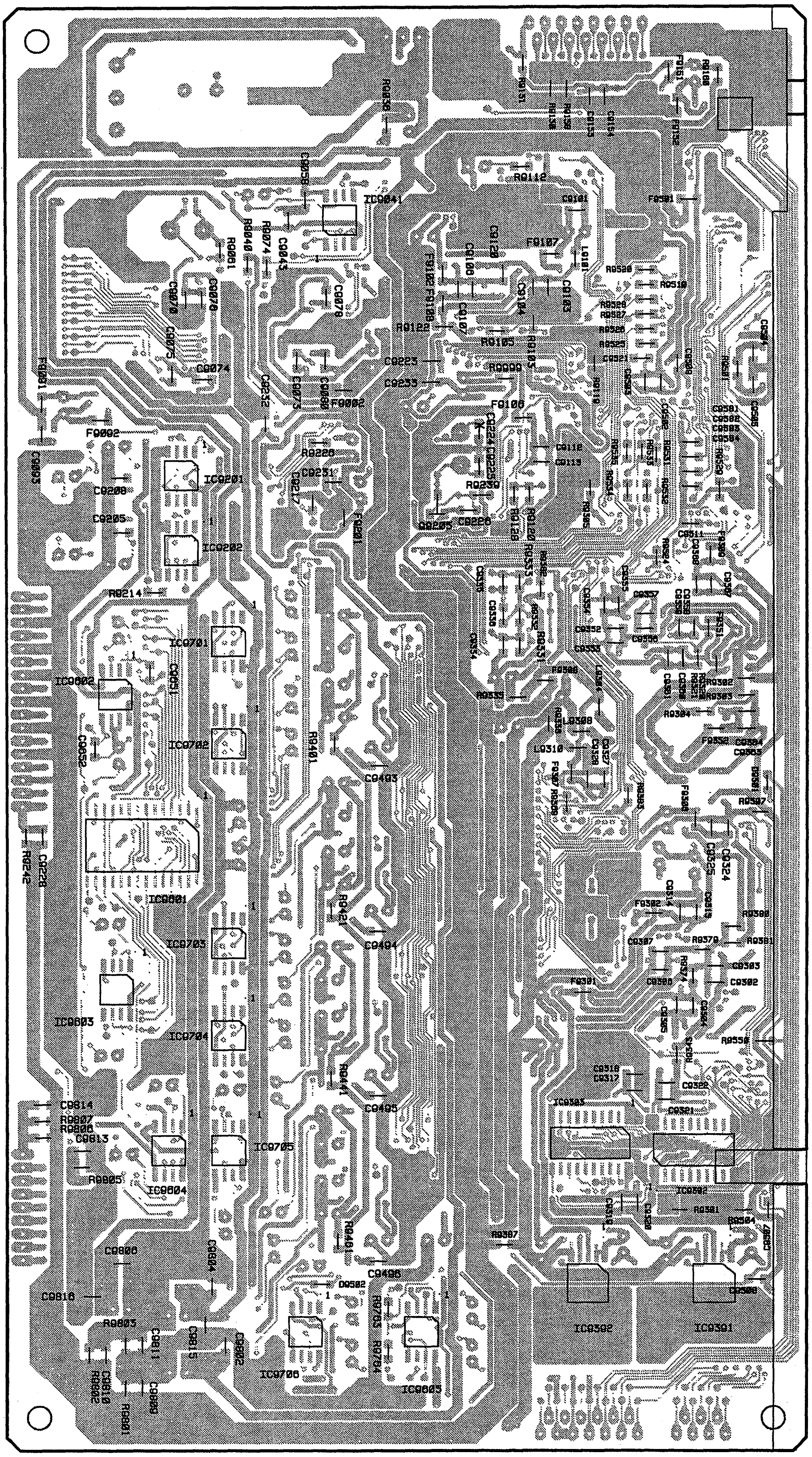
IC9603

IC9704

IC9604 IC9705
IC9303 IC9302

IC9392 IC9391

IC9706 IC9605


IC9041
R0839
R0112
C9101
F9107
R0122
R0105
R9900
C9223
C9233
F9100
C9226
R9230
IC9201
IC9202
C9200
C9205
F9002
R9214
IC9701
IC9602
C9052
IC9702
R9401
C9403
IC9601
R0242
C9220
IC9703
C9404
IC9603
IC9704
C9405
C9814
R9807
R9806
C9813
IC9604
IC9705
R9805
C9806
C9804
C9816
R9803
C9815
C9802
C9810
R9802
R9801
C9800
C9811
IC9706
D9502
C9406
R9763
R9764
IC9605
R9401
R0335
L0310
F9301
IC9303
IC9302
IC9391
IC9392
C9300
R9301
R9304
R9550
R9507
R9510
R9520
C9501
R9391
C9301

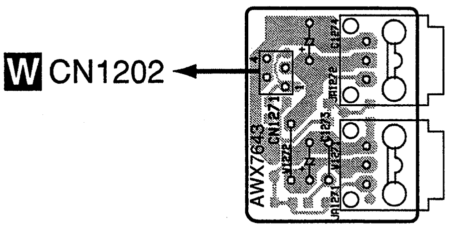
(ANP7373-A)

A
B
C
D

SIDE B

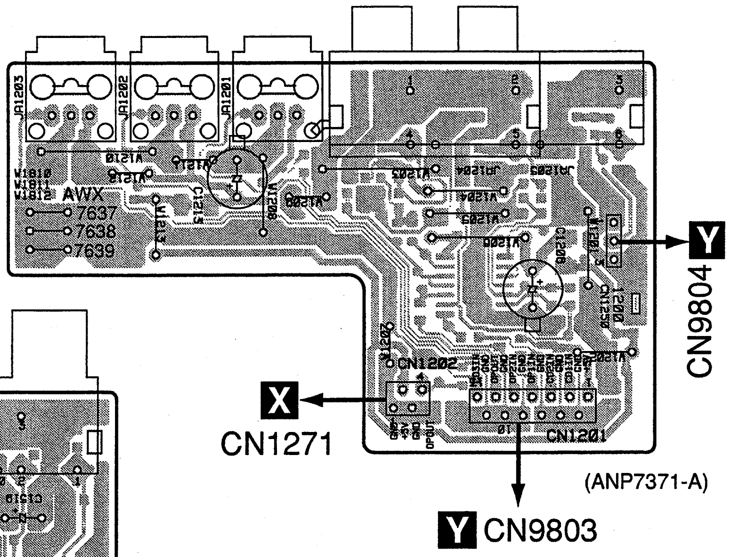
4.12 RF/DIGITAL IN, OPT OUT and COMPONENT ASSYS

X OPT OUT ASSY

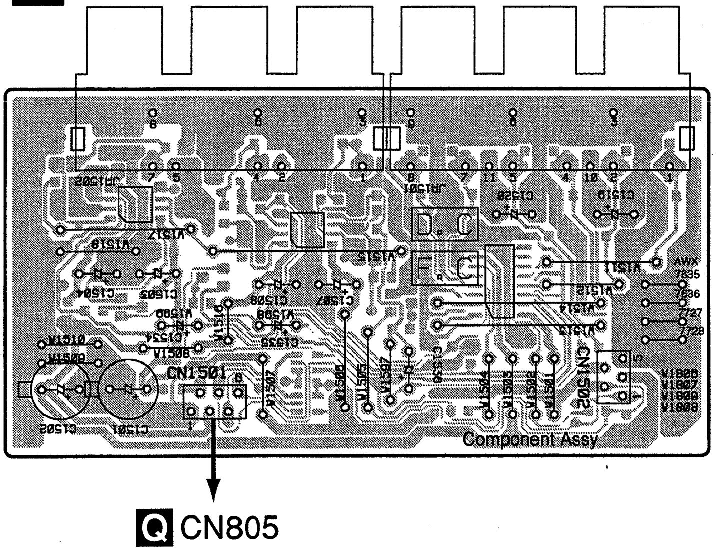

W CN1202
CN1271
AWX7643

SIDE A

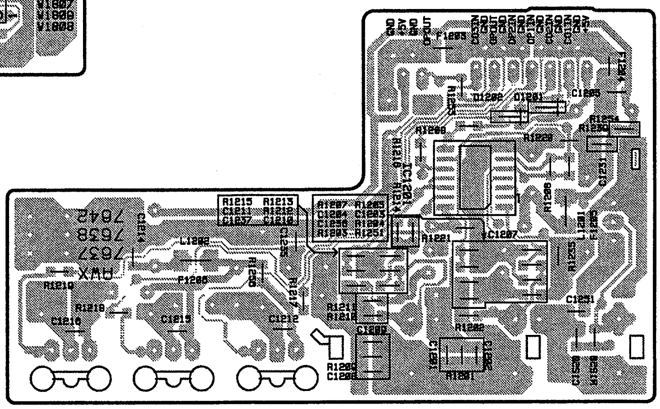
W RF / DIGITAL IN ASSY


JA1203
JA1202
JA1201
AWX
7637
7638
7639
C1213
CN1202
CN1201
Y CN9804
X CN1271
Y CN9803
(ANP7371-A)

Z COMPONENT ASSY

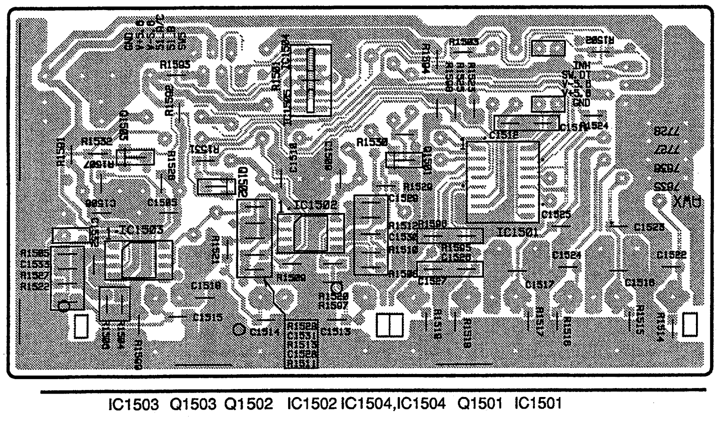

CN1501
CN1502
C1502
C1501
Component Assy
AWX
7635
7636
7727
7728
Q CN805

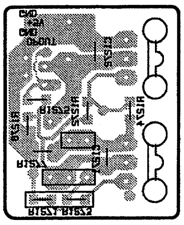
SIDE B


AWX
7637
7638
7642

Z COMPONENT ASSY

W RF / DIGITAL IN ASSY (ANP7371-A)

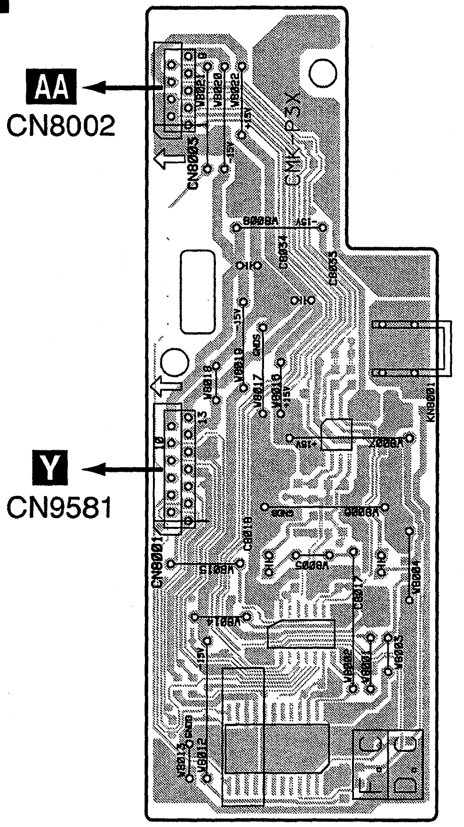

IC1503
IC1502
IC1501
IC1503 Q1503 Q1502 IC1502 IC1504,IC1504 Q1501 IC1501



X OPT OUT ASSY

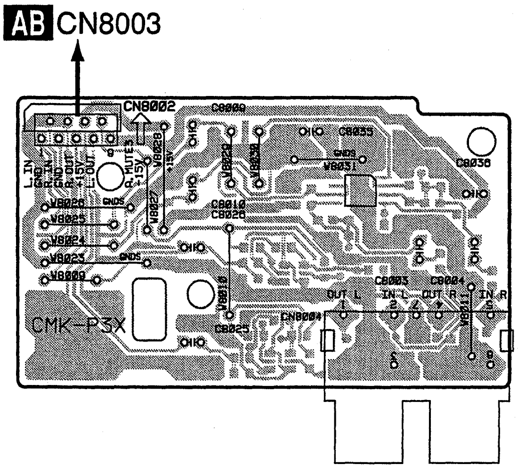
4.13 2CH I/O PJ and TRIM ASSYS

AB TRIM ASSY


AA
CN8002
Y
CN9581
CN8003
CN8001
CMK-P3X
KN8001

AA 2CH - I/O PJ ASSY

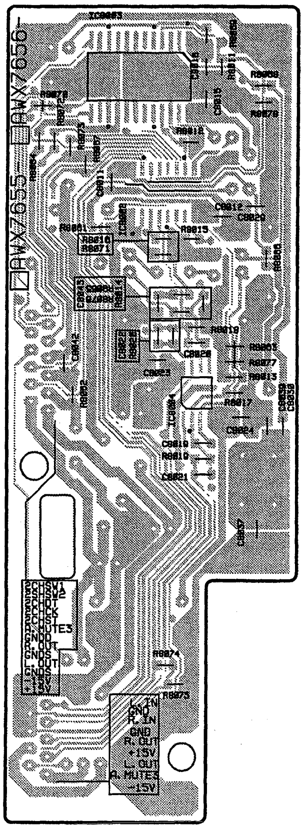
SIDE A


AB CN8003
CN8002
L.IN
GND
R.IN
GND
R.OUT
+15V
L.OUT
R.MUTE3
+15V
CMK-P3X
CN8004
OUT L
IN L
OUT R
IN R

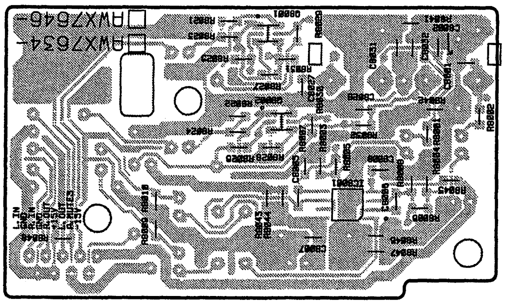
(ANP7372-A)

SIDE B

AB TRIM ASSY


AWX7655
AWX7656
IC8003
L.IN
GND
R.IN
GND
R.OUT
+15V
L.OUT
R.MUTE3
-15V

AA 2CH -I/O PJ ASSY


AWX7646
AWX7654

(ANP7372-A)

5. PCB PARTS LIST

NOTES: ● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56×10^1 → 561 .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
47k Ω → 47×10^3 → 473 .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562×10^1 → 5621 .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

■LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Desacription	Part No.				Remarks
		VSX-39TX	VSX-37TX	VSX-36TX	VSX-D909S	
NSP	MAIN ASSY	AWK7640	AWK7641	AWK7642	AWK7643	
	├ MAIN CONTROL ASSY	AWX7705	AWX7706	AWX7707	AWX7708	
	├ VIDEO ASSY	AWX7307	AWX7394	AWX7394	AWX7394	
	└ S-VIDEO ASSY	AWX7678	AWX7679	AWX7679	AWX7679	
NSP	COMPLEX ASSY	AWK7497	AWK7522	AWK7522	AWK7522	
	├ REGULATOR ASSY	AWX7310	AWX7310	AWX7310	AWX7310	
	├ PRIMARY ASSY	AWX7311	AWX7311	AWX7311	AWX7311	
NSP	├ A-PINJACK ASSY	AWX7312	AWX7397	AWX7397	AWX7397	
	├ CONNECTION ASSY	AWX7313	AWX7313	AWX7313	AWX7313	
NSP	├ EXTRA-5.1 ASSY	AWX7314	Not used	Not used	Not used	
	├ EXTERNAL IN ASSY	Not used	AWX7398	AWX7398	AWX7398	
	├ TRANS 2-2 ASSY	AWX7366	AWX7366	AWX7366	AWX7366	
NSP	└ TRANS 1 ASSY	AWX7316	AWX7316	AWX7316	AWX7316	
NSP	COMPLEX 2 ASSY	AWK7626	AWK7627	AWK7628	AWK7628	
	├ COMPONENT ASSY	AWX7635	AWX7636	AWX7636	AWX7636	
	├ RF / DIGITAL IN ASSY	AWX7637	AWX7638	AWX7642	AWX7642	
NSP	└ OPT OUT ASSY	AWX7643	AWX7643	AWX7643	AWX7643	
NSP	2CH I/O ASSY	AWK7636	AWK7637	AWK7637	AWK7637	
	├ 2CH I/O PJ ASSY	AWX7634	AWX7646	AWX7646	AWX7646	
	└ TRIM ASSY	AWX7655	AWX7655	AWX7655	AWX7655	
NSP	FRONT/VAMP ASSY	AWK7667	AWK7656	AWK7657	AWK7658	
	├ V-AMP ASSY	AWX7729	AWX7309	AWX7309	AWX7409	
	├ DISPLAY ASSY	AWX7698	AWX7698	AWX7699	AWX7700	
NSP	├ ROTARY ENCODER ASSY	AWX7328	AWX7328	AWX7726	AWX7726	
	├ H. PHONE/F. VIDEO ASSY	AWX7342	AWX7342	AWX7528	AWX7528	
	└ VOLUME ASSY	AWX7367	AWX7367	Not used	Not used	
NSP	POWER/CURRENT ASSY	AWK7650	AWK7651	AWK7652	AWK7652	
NSP	├ C-AMP-P ASSY	AWX7680	AWX7680	AWX7680	AWX7680	
	├ C-AMP-N ASSY	AWX7681	AWX7681	AWX7681	AWX7681	
NSP	├ OUTPUT-FL ASSY	AWX7682	AWX7682	AWX7682	AWX7682	
NSP	├ OUTPUT-FR ASSY	AWX7683	AWX7683	AWX7683	AWX7683	
NSP	├ OUTPUT-C ASSY	AWX7684	AWX7684	AWX7684	AWX7684	
NSP	├ OUTPUT-SL ASSY	AWX7685	AWX7685	AWX7685	AWX7685	
NSP	├ OUTPUT-SR ASSY	AWX7686	AWX7686	AWX7686	AWX7686	
NSP	├ VL-TERMINAL ASSY	AWX7657	AWX7657	AWX7657	AWX7657	
	├ TRANS 2-1 ASSY	AWX7659	AWX7694	AWX7695	AWX7695	
	├ DIODE ASSY	AWX7660	AWX7697	AWX7697	AWX7697	
	└ SP/PS ASSY	AWX7658	AWX7688	AWX7689	AWX7689	
	DSP ASSY	AWX7632	AWX7632	AWX7633	AWX7633	

■CONTRAST OF PCB ASSEMBLIES

D MAIN CONTROL ASSY

AWX7705, AWX7706, AWX7707 and AWX7708 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.				Remarks
		AWX7705	AWX7706	AWX7707	AWX7708	
	IC112	M5220FP	UPC4570G2	UPC4570G2	UPC4570G2	
	IC113	M5220L	UPC4570HA	UPC4570HA	UPC4570HA	
	IC114	M5220L	UPC4570HA	UPC4570HA	UPC4570HA	
	R921	Not used	Not used	RS1/10S103J	RS1/10S103J	
	R922	RS1/10S103J	RS1/10S103J	Not used	Not used	
	R923	Not used	RS1/10S103J	Not used	RS1/10S103J	
	R924	RS1/10S103J	Not used	RS1/10S103J	Not used	
	R925	RS1/10S103J	Not used	Not used	RS1/10S103J	
	R926	Not usd	RS1/10S103J	RS1/10S103J	Not used	
	CN902 13P CONNECTOR	HLEM13R	HLEM13R	HLEM13R	HLEM13S	
	CN941 4P PIN JACK	Not used	AKB7015	AKB7015	AKB7015	
	JA911 2P PIN JACK	Not used	DKB1045	DKB1045	DKB1045	
	JA931 2P PIN JACK	Not used	VKB1060	VKB1060	VKB1060	
	103 6P PIN JACK	AKB7088	Not used	Not used	Not used	
	113 6P PIN JACK	Not used	AKB7089	AKB7089	AKB7089	
	JA901, JA911 4P PIN JACK	AKB7075	Not used	Not used	Not used	

E V-AMP ASSY

AWX7729, AWX7309 and AWX7409 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7729	AWX7309	AWX7409	
	IC7501, IC7521, IC7541, IC7601, IC7621	NJM2114MD	UPC4570G2	UPC4570G2	
	IC7502, IC7522, IC7542, IC7602, IC7622	NJM4558MD	NJM4558MD	Not used	
	Q7501, Q7521, Q7541, Q7601, Q7621	2SC2878	2SC2878	Not used	
	D7501, D7502, D7521, D7522, D7541, D7542	1SS355	1SS355	Not used	
	D7601, D7602, D7621, D7622	1SS355	1SS355	Not used	
	D7503, D7504, D7523, D7524, D7543, D7544	HZU2CLL	HZU2CLL	Not used	
	D7603, D7604, D7623, D7624	HZU2CLL	HZU2CLL	Not used	
	C7505, C7525, C7545, C7605, C7625	CCSQCH220J50	CCSQCH220J50	Not used	
	C7506, C7526, C7546, C7606, C7626	CEAT4R7M50	CEAT4R7M50	Not used	
	C7510, C7530, C7550, C7610, C7630	CKSQYB104K25	CKSQYB104K25	Not used	
	R7504, R7524, R7544, R7604, R7624	RS1/10S103J	RS1/10S103J	RS1/10S0R0J	
	R7509, R7529, R7549, R7609, R7629	RS1/10S103J	RS1/10S103J	Not used	
	R7507, R7508, R7510, R7527, R7528, R7530	RS1/10S334J	RS1/10S334J	Not used	
	R7547, R7548, R7550, R7607, R7608, R7610	RS1/10S334J	RS1/10S334J	Not used	
	R7627, R7628, R7630	RS1/10S334J	RS1/10S334J	Not used	
	R7511, R7531, R7551, R7611, R7631	RS1/10S102J	RS1/10S102J	Not used	
	R7512, R7513, R7516, R7517, R7532, R7533	RS1/10S473J	RS1/10S473J	Not used	
	R7536, R7537, R7552, R7553, R7556, R7557	RS1/10S473J	RS1/10S473J	Not used	
	R7612, R7613, R7616, R7617, R7632, R7633	RS1/10S473J	RS1/10S473J	Not used	
	R7636, R7637	RS1/10S473J	RS1/10S473J	Not used	
	R7514, R7534, R7554, R7614, R7634	RS1/10S101J	RS1/10S101J	Not used	
	R7515, R7518, R7535, R7538, R7555, R7558	RS1/10S105J	RS1/10S105J	Not used	
	R7615, R7618, R7635, R7638	RS1/10S105J	RS1/10S105J	Not used	
	R7641	RS1/10S914J	RS1/10S914J	Not used	
	R7653 - R7656, R7663 - R7666, R7673 - R7676	RS1/10S0R0J	RS1/10S0R0J	Not used	
	R7683 - R7686, R7693 - R7696	RS1/10S0R0J	RS1/10S0R0J	Not used	

B A-PINJACK ASSY

AWX7312 and AWX7397 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7312	AWX7397	
	CN1014 6P PIN JACK	AKB7119	Not used	
	JA1011 - JA1013 4P PIN JACK	AKB7108	AKB7048	
	JA1015 4P PIN JACK	Not used	AKB7048	
	1016 2P PIN JACK	Not used	AKB7120	

P VIDEO ASSY

AWX7307 and AWX7394 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7307	AWX7394	
	JA701 3P PIN JACK	AKB7109	Not used	
	JA703 3P PIN JACK	AKB7116	AKB7115	
	702 2P PIN JACK	AKB7076	Not used	
	707 1P PIN JACK	Not used	AKB7020	
	2P PIN JACK	Not used	AKB7017	

Q S-VIDEO ASSY

AWX7678 and AWX7679 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7678	AWX7679	
	CN801 4P MINI DIN SOCKET	Not used	AKP7043	
	CN802, CN803 4P MINI DIN SOCKET	AKP7023	AKP7020	
	JA801 4P MINI DIN SOCKET	AKP7049	Not used	

S DISPLAY ASSY

AWX7698, AWX7699 and AWX7700 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7698	AWX7699	AWX7700	
	IC7071	M66311FP	Not used	Not used	
	Q7002, Q7054	DTC124EK	DTC124EK	Not used	
	D7002	SLR-343DC(NPQ)	SLR-343DC(NPQ)	Not used	
	D7071 - D7079	SLR-343VR(MNP)	Not used	Not used	
	S7019, S7020	VSG1009	VSG1009	Not used	
	C7011, C7073, C7074	CKSQYB102K50	Not used	Not used	
	C7071	CEAL101M6R3	Not used	Not used	
	C7072	CKSQYB473K50	Not used	Not used	
	L7011, L7012	Not used	Not used	LCTA330J3225	
	R7038	RS1/10S271J	RS1/10S271J	Not used	
	R7042	RS1/10S103J	RS1/10S223J	RS1/10S223J	
	R7061	RS1/10S103J	RS1/10S103J	Not used	
	R7071 - R7079	RS1/10S271J	Not used	Not used	
	R7080 - R7083	RS1/10S102J	Not used	Not used	
	R7092	RS1/10S473J	Not used	Not used	
	R7099, R7100	RS1/10S0R0J	RS1/10S0R0J	Not used	
	CN7003 8P FFC CONNECTOR	52045-0845	Not used	Not used	
	505	VEF1040	Not used	Not used	

T ROTARY ENCODER ASSY

AWX7328 and AWX7726 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7328	AWX7726	
	S7101	Not used	ASX7004	
	C7103, C7104	Not used	CKSQYB103K50	
	R7103, R7104	Not used	RS1/10S103J	

Y DSP ASSY

AWX7632 and AWX7633 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7632	AWX7633	
	IC9041	NJM4558MD	Not used	
	IC9071	PM4007A	Not used	
	IC9091	LH52256CN-70LL	Not used	
	Q9001, Q9002, Q9004 - Q9006, Q9031	2SC3082K (NP)	Not used	
	Q9003, Q9032	2PD601A (QR)	Not used	
	Q9007	2PB709A (QR)	Not used	
	D9001	KV1851	Not used	
	D9002	1SS355	Not used	
	F9001	ATF7001	Not used	
	L9003	ATH7001	Not used	
	L9071	ATL7002	Not used	
	F9091, F9092	DTF1064	Not used	
	C9002 - C9006, C9008 - C9013, C9015, C9017	CKSRYF104Z16	Not used	
	C9018, C9031, C9032, C9051, C9052	CKSRYF104Z16	Not used	
	C9055, C9077, C9079, C9081, C9092	CKSRYF104Z16	Not used	
	C9043, C9058, C9073 - C9075, C9078, C9080	CKSQYF104Z25	Not used	
	C9007	CCSRCH750J50	Not used	
	C9014, C9054, C9056, C9070	CKSRYB103K50	Not used	
	C9016	CEJA470M25	Not used	
	C9033	CCSRCH101J50	Not used	
	C9041, C9042	CKSRYF105Z10	Not used	
	C9053	CEJQNP4R7M25	Not used	
	C9057	CCSRCH270J50	Not used	
	C9071	CEJQ101M10	Not used	
	C9076	CCSQCH271J50	Not used	
	C9091	CEJA470M16	Not used	
	C9095	CCSRCH221J50	Not used	
	R9002, R9010, R9011, R9018, R9038, R9053	RS1/16S103J	Not used	
	R9054, R9071, R9072	RS1/16S103J	Not used	
	R9003, R9019	RS1/16S512J	Not used	
	R9004, R9015, R9016, R9020	RS1/16S202J	Not used	
	R9005, R9006, R9014, R9021, R9022, R9025	RS1/16S102J	Not used	
	R9073	RS1/16S102J	Not used	
	R9007, R9023, R9033	RS1/16S220J	Not used	
	R9008, R9027, R9030	RS1/16S302J	Not used	
	R9009, R9074	RS1/16S221J	Not used	
	R9013, R9017, R9034	RS1/16S152J	Not used	
	R9024, R9026	RS1/16S332J	Not used	
	R9028, R9029	RS1/16S561J	Not used	
	R9031, R9032	RS1/16S333J	Not used	
	R9035	RS1/16S223J	Not used	
	R9036,R9091, R9095, R9096	RS1/16S0R0J	Not used	
	R9037, R9039	RS1/16S274J	Not used	
	R9041	RS1/16S472J	Not used	
	R9042, R9044, R9062	RS1/16S392J	Not used	
	R9043	RS1/16S273J	Not used	
	R9046	RS1/16S104J	Not used	
	R9047	RS1/16S432J	Not used	
	R9051	RS1/16S393J	Not used	
	R9052	RS1/16S243J	Not used	
	R9055	RS1/16S121J	Not used	
	R9056	RS1/16S683J	Not used	
	R9057 - R9059	RS1/16S473J	Not used	
	R9061	RS1/16S471J	Not used	
	R9075, R9076	RS1/16S101J	Not used	

Y DSP ASSY

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7632	AWX7633	
	CN9804 3P PLUG	KM250MA3	Not used	
	X9001 CRYSTAL RESONATOR (18.432MHz)	ASS7009	Not used	

K DIODE ASSY

AWX7660 and AWX7697 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7660	AWX7697	
	D3001, D3002	LN6SB60-4003	D5SBA20(B)	

W RF/DIGITAL IN ASSY

AWX7637, AWX7638 and AWX7642 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7637	AWX7638	AWX7642	
	JA1204 2P PIN JACK	AKB7092	AKB7091	AKB7095	
	1200	VEF1040	VEF1040	Not used	

Z COMPONENT ASSY

AWX7635 and AWX7636 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7635	AWX7636	
	JA1501 3P PIN JACK	AKB7127	AKB7128	
	JA1502 3P PIN JACK	AKB7125	AKB7126	

J TRANS 2-1 ASSY

AWX7659, AWX7694and AWX7695 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7659	AWX7694	AWX7695	
	C4501, C4503, C4504	ACH1237-A	Not used	Not used	
	C4502	ACH1237-A	ACH1237-A	Not used	
	C4509, C4510	CECA101M50	CEAT101M50	CEAT101M50	
	C4511, C4512	ACH1237-A	Not used	Not used	
	C4513	ACH1237-A	ACH1237-A	Not used	
	D4513	Not used	Not used	MTZJ16B	
	Q4503	Not used	Not used	DTC143ES	
	Q4504	Not used	Not used	DTA143ES	
	Q4505	Not used	Not used	DTC124ES	
	R4501, R4503, R4511	RFA1/4PS100J	Not used	Not used	
	R4502, R4504	RFA1/4PS100J	RFA1/4PS100J	Not used	

R H. PHONE / F. VIDEO ASSY

Although AWX7343 and AWX7528 are different in part number, they consist of the same components.

AA 2CH I/O PJ ASSY

AWX7634 and AWX7646 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.		Remarks
		AWX7634	AWX7646	
	CN8004	AKB7129	AKB7087	

L SP / PS ASSY

AWX7658, AWX7688 and AWX7689 are constructed the same except for the following :

Mark	Symbol and Desacription	Part No.			Remarks
		AWX7658	AWX7688	AWX7689	
	C3001, C3002	ACH7147	ACH7068	ACH7130	
	C3119 - C3122	CEAT470M50	Not used	Not used	
	L3001, L3002	ATX1012	ATX1012	Not used	
	Q3005	Not used	Not used	DTA124ES	
	RY3101, RY3103, RY3104	ASR-109	ASR7014	ASR7014	

■ PCB PARTS LIST FOR VSX-39TX/KU/CA

A EXTRA-5.1 ASSY

CAPACITORS

Mark	No. Description	Part No.
	C1107-C1112	CEAT4R7M50
	C1113-C1115	CKCYF103Z50

RESISTORS

Mark	No. Description	Part No.
	All Resistors	RD1/4PU□□□J

OTHERS

Mark	No. Description	Part No.
	JA1101-JA1103 2P PIN JACK	AKB7121
	CN1101 8P SOCKET	KP200TA8L

A EXTERNAL IN ASSY

CAPACITORS

Mark	No. Description	Part No.
	C1107-C1112	CEAT4R7M50
	C1113-C1115	CKCYF103Z50

RESISTORS

Mark	No. Description	Part No.
	All Resistors	RD1/4PU□□□J

OTHERS

Mark	No. Description	Part No.
	JA1101-JA1103	AKB7121
	CN1101 8P SOCKET	KP200TA8L

B A-PINJACK ASSY

CAPACITORS

Mark	No. Description	Part No.
	C1019-C1022	CKCYF103Z50

RESISTORS

Mark	No. Description	Part No.
	All Resistors	RD1/4PU□□□J

OTHERS

Mark	No. Description	Part No.
	JA1011-JA1013 4P PIN JACK	AKB7108
	CN1014 6P PIN JACK	AKB7119
	CN1001 18P SOCKET	KP200TA18L
	CN1002 4P SOCKET	KP200TA4L

C CONNECTION ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC1351	M5220P
	IC1301-IC1303	NJM4558D-D

CAPACITORS

Mark	No. Description	Part No.
	C1351,C1352	CEAT100M50
	C1365,C1366	CEAT101M16
	C1363,C1364	CEAT2R2M50

Mark	No.	Description	Part No.
	C1357,C1358		CEAT470M25
	C1307-C1312		CEAT4R7M50
	C1313-C1318		CKCYF103Z50
	C1361,C1362		CQMA242J50
	C1359,C1360		CQMBA822J50

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RD1/4PU□□□J

OTHERS

Mark	No.	Description	Part No.
	CN1351	18P PLUG	KM200TA18
	CN1352	4P PLUG	KM200TA4
	CN1301	8P PLUG	KM200TA8
	CN1302	10P SOCKET	KP200TA10L
	CN1353	20P SOCKET	KP200TA20L

D MAIN CONTROL ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC102		BU4052BCF
	IC110		M62429FP
	IC103,IC105,IC109		NJM4558MD
	IC901		PD5589A
	IC104,IC107		TC9163AF
	IC101		TC9274N-001
	IC108		TC9482N
	IC112		M5220FP
	IC113,IC114		M5220L
	Q991		2SC1740S
	Q251,Q252		2SC2412K
	Q113,Q114,Q271,Q272		2SC2878
	Q902-Q905		DTA124EK
	Q901		DTC143EK
	Q107-Q112		HN1C03F
	D254,D255,D901-D910,D991		1SS355
	D995		UDZ11B
	D201,D202,D256		UDZS5.1B

COIL

Mark	No.	Description	Part No.
	L901	CHIP COIL	LCTA2R2J3225

CAPACITORS

Mark	No.	Description	Part No.
	C902		ACH7058
	C951-C964		CCSQCH101J50
	C157,C158,C167,C168,C177		CCSQCH560J50
	C111,C112,C117,C118		CEAT100M50
	C127-C130,C141,C142		CEAT100M50
	C145,C146,C149,C150		CEAT100M50
	C153,C154,C159,C160		CEAT100M50
	C163,C164,C169,C170		CEAT100M50
	C173,C174,C179,C180		CEAT100M50
	C255,C256,C277,C278		CEAT100M50
	C123-C126,C991		CEAT101M16
	C147,C148,C257		CEAT1R0M50
	C903		CEAT221M10
	C121,C122		CEAT221M16
	C905		CEAT2R2M50
	C915		CEAT331M10
	C107,C108,C115,C116		CKSQYB103K50
	C133-C140,C143,C144		CKSQYB103K50
	C161,C162,C279,C280,C901		CKSQYB103K50
	C904,C908,C909,C914,C919		CKSQYB103K50
	C965		CKSQYB103K50
	C273,C274		CKSQYB104K25
	C275,C276		CKSQYB332K50
	C178		CKSQYB333K50
	C271,C272		CKSQYB472K50
	C910,C912		CKSQYB473K50
	C906		CKSQYF105Z16
	C992		CKSQYF225Z16

RESISTORS

Mark	No.	Description	Part No.
	R948		RA12T473J
	R913		RA5T103J
	R949		RA8T103J
	R109		RD1/2VM391J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X901	CERAMIC RESONATOR (4.19MHz)	ASS1018
	CN903	7P FFC CONNECTOR	HLEM7R-1
	CN902	13P FFC CONNECTOR	HLEM13R-1
	CN906	5P FFC CONNECTOR	HLEM5S-1
	CN105	23P FFC CONNECTOR	HLEM23S-1
	CN905	26P FFC CONNECTOR	HLEM26S-1
	CN904	32P FFC CONNECTOR	HLEM32S-1
	CN901,CN911	4P PIN JACK	AKB7075
	103	6P PIN JACK	AKB7088
	CN103	10P PLUG	KM200TA10
	CN101	20P PLUG	KM200TA20
	CN104	16P SOCKET	KP200IA16L
	CN901	15P SOCKET	KP200TA15L
	CN920	7P SOCKET	KP200TA7L
	CN108	9P SOCKET	KP200TA9L
	909,912,913	PCB BINDER	VEF1040

E V-AMP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC581		BU4052BCF
	IC7502,IC7522,IC7542,IC7602,IC7622		NJM4558MD
	IC7501,IC7521,IC7541,IC7601,IC7621		NJM2114MD
	Q503,Q523,Q543,Q603,Q623		2SA1048
⚠	Q506,Q509,Q526,Q529,Q546		2SA970
⚠	Q549,Q606,Q609,Q626,Q629		2SA970
⚠	Q507,Q508,Q527,Q528		2SC2240
⚠	Q547,Q548,Q607,Q608		2SC2240
	Q561		2SC2240
⚠	Q627,Q628		2SC2240
	Q510,Q530,Q550,Q610,Q630		2SC2878
	Q7501,Q7521,Q7541,Q7601,Q7621		2SC2878
	Q501,Q521,Q541,Q601,Q621		FMS3
	Q504,Q524,Q544,Q604,Q624		FMW4
	D501,D502,D504,D505		1SS355
	D521,D522,D524,D525		1SS355
	D541,D542,D544,D545		1SS355
	D581-D588,D601,D602		1SS355
	D604,D605,D621,D622		1SS355
	D624,D625,D7501,D7502		1SS355
	D7521,D7522,D7541,D7542		1SS355
	D7601,D7602,D7621,D7622		1SS355
	D7503,D7504,D7523,D7524		HZU2CLL

Mark	No. Description	Part No.
	D7543,D7544,D7603,D7604	HZU2CLL
	D7623,D7624	HZU2CLL
	D503,D523,D543,D603,D623	UDZS6.8B
⚠	D506,D526,D546,D606,D626	UDZS8.2B

CAPACITORS

	C511,C512,C531,C532	CCCSL181K2H
	C551,C552,C611,C612	CCCSL181K2H
	C631,C632	CCCSL181K2H
	C509,C529,C549,C609,C629	CCCSL5R0C2H
	C504,C524,C544,C604,C624	CCSQCH101J50
	C7504,C7505,C7524,C7525	CCSQCH220J50
	C7544,C7545,C7604,C7605	CCSQCH220J50
	C7624,C7625	CCSQCH220J50
	C502,C522,C542,C602,C622	CCSQCH221J50
	C506,C507,C526,C527	CCSQSL560J50
	C546,C547,C606,C607	CCSQSL560J50
	C626,C627	CCSQSL560J50
	C7501,C7521,C7541,C7601,C7621	CEAT100M50
	C505,C508,C525,C528,C545	CEAT101M16
	C548,C605,C608,C625,C628	CEAT101M16
	C510,C530,C550,C610,C630	CEAT470M16
	C513,C533,C553,C568,C569	CEAT470M50
	C613,C633	CEAT470M50
	C501,C521,C541,C601,C621	CEAT4R7M50
	C7506,C7526,C7546,C7606,C7626	CEAT4R7M50
	C7502,C7503,C7510,C7512	CKSQYB104K25
	C7522,C7523,C7530,C7532	CKSQYB104K25
	C7542,C7543,C7550,C7552	CKSQYB104K25
	C7602,C7603,C7610,C7612	CKSQYB104K25
	C7622,C7623,C7630,C7632	CKSQYB104K25
	C561-C565	CKSQYB222K50
	C503,C523,C543,C603,C623	CKSQYB332K50
	C570	CKSQYF223Z50
	C581,C582	CKSQYF225Z16

RESISTORS

	R518,R538,R558,R618,R638	RD1/4MUF473J
⚠	R513,R514,R533,R534	RS1/10S121J
⚠	R553,R554,R613,R614	RS1/10S121J
⚠	R633,R634	RS1/10S121J
	Other Resistors	RS1/10S□□□J

OTHERS

	CN501 23P FFC CONNECTOR	52045-2345
	CN502 28P FFC CONNECTOR	52045-2845
	CN504 3P PLUG	KM250MA3
	506 PCB BINDER	VEF1040

F C-AMP-N ASSY

SEMICONDUCTORS

	Q2503,Q2523,Q2543,Q2603,Q2623	2SA970
	Q2001,Q2002	2SC1740S
	Q2502,Q2522,Q2542,Q2602,Q2622	2SC4137
⚠	Q2501,Q2521,Q2541,Q2601,Q2621	IRF540A
	D2501-D2504,D2521-D2524	1SS133
	D2541-D2544,D2601-D2604	1SS133
	D2621-D2624	1SS133

CAPACITORS

	C2501,C2521,C2541,C2601,C2621	CEANPR22M50
	C2001	CEAT101M10

Mark	No. Description	Part No.

RESISTORS

⚠	R2506,R2510,R2526,R2530,R2546	RD1/4PUF391J
⚠	R2550,R2606,R2610,R2626,R2630	RD1/4PUF391J
⚠	R2501,R2521,R2541,R2601,R2621	RD1/4PUF470J
	VR2501,VR2521,VR2541,VR2601 (22Ω)	RCP1134
	VR2621 (22Ω)	RCP1134
	Other Resistors	RD1/4PU□□□J

OTHERS

	CN2001 28P FFC CONNECTOR	HLEM28S-1
	CN2501,CN2521,CN2541,CN2601 7P PLUG	KM250NA7L
	CN2621 8P PLUG	KM250NA8L

G C-AMP-P ASSY

SEMICONDUCTORS

⚠	Q2504,Q2524,Q2544,Q2604,Q2624	IRF9540A

RESISTORS

⚠	R2511,R2531,R2551,R2611,R2631	RD1/4PUF470J

OTHERS

	CN2504,CN2524,CN2544,CN2604 5P PLUG	KM250NA5L
	CN2624 5P PLUG	KM250NA5L

HA OUTPUT-SL ASSY

RESISTOR

⚠	R2612 (0.05Ω/5W)	ACN7097

OTHERS

	CN2603 5P SOCKET	KP250NA5
	CN2602 7P SOCKET	KP250NA7

HB OUTPUT-FL ASSY

RESISTOR

⚠	R2512 (0.05Ω/5W)	ACN7097

OTHERS

	CN2503 5P SOCKET	KP250NA5
	CN2502 7P SOCKET	KP250NA7

HC OUTPUT-C ASSY

RESISTOR

⚠	R2552 (0.05Ω/5W)	ACN7097

OTHERS

	CN2543 5P SOCKET	KP250NA5
	CN2542 7P SOCKET	KP250NA7

HD OUTPUT-FR ASSY

RESISTOR

Mark	No.	Description	Part No.
⚠	R2532	(0.05Ω/5W)	ACN7097

OTHERS

Mark	No.	Description	Part No.
	CN2523	5P SOCKET	KP250NA5
	CN2522	7P SOCKET	KP250NA7

HE OUTPUT-SR ASSY

RESISTOR

Mark	No.	Description	Part No.
⚠	R2632	(0.05Ω/5W)	ACN7097

OTHERS

Mark	No.	Description	Part No.
	CN2623	5P SOCKET	KP250NA5
	CN2622	8P SOCKET	KP250NA8

I VL-TERMINAL ASSY

CAPACITORS

Mark	No.	Description	Part No.
	C2011,C2012		CEAT470M63

OTHERS

Mark	No.	Description	Part No.
	KN2011,KN2012	GROUND PLATE	ANK-142

J TRANS 2-1 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC4501,IC4502	(2.5A)	AEK7014
⚠	Q4502		2SA1837
⚠	Q4501		2SC4793
	D4509,D4510		MTZJ12B
	D4505-D4508		MTZJ20A
⚠	D4501-D4504		S5688G
	D4511,D4512		S5688G

CAPACITORS

Mark	No.	Description	Part No.
	C4501-C4504,C4511-C4513		ACH1237
	C4509,C4510		CECA101M50
	C4507,C4508		CEAT471M63

RESISTORS

Mark	No.	Description	Part No.
⚠	R4509,R4510		RD1/4PMF332J
	R4501-R4504,R4511		RFA1/4PS100J
	Other Resistors		RD1/4PU□□□J

OTHERS

Mark	No.	Description	Part No.
	4001	9P CABLE HOLDER	51048-0900
	H4501-H4504	FUSE CLIP	AKR1004
	4501,4502	HEAT SINK	ANH-309
	4503,4504	SCREW	BPZ30P080FZK

K DIODE ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	D3001,D3002		LN6SB60-4003

L SP/PS ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q3156-Q3159		DTA124ES
	Q3151-Q3155		DTC143ES
	D3051,D3053,D3055,D3057,D3059		1SS133

COILS AND FILTERS

Mark	No.	Description	Part No.
	L3101-L3105	AF CHOKE COIL	ATH1053
	L3001,L3002	CHIP BEAD	ATX1012

RELAYS

Mark	No.	Description	Part No.
	RY3101,RY3103,RY3104		ASR-109
	RY3102,RY3105		ASR7014

CAPACITORS

Mark	No.	Description	Part No.
	C3001,C3002	(22000μF/56V)	ACH7147
	C3118-C3122		CEAT470M50
	C3101-C3105		CFTYA104J50
	C3111-C3117		CQHA102J2A

RESISTORS

Mark	No.	Description	Part No.
	R3151-R3155		RD1/2PM331J
⚠	R3101-R3105		RD1/4PMF4R7J
	R3001,R3002		RD1/4PMF473J
⚠	R3106-R3110		RS1LMF4R7J
⚠	R3131,R3132		RS2LMF331J
	Other Resistors		RD1/4PM□□□J

OTHERS

Mark	No.	Description	Part No.
	3004	8P CABLE HOLDER	51048-0800
	3001	9P CABLE HOLDER	51048-0900
	CN3003	14P FFC CONNECTOR	HLEM14S-1
	CN3101	8P SPEAKER TERMINAL	AKE7058
	CN3102	6P SPEAKER TERMINAL	AKE7060
	J3002	JUMPER WIRE 8P	D20PYY0825E
	J3001	JUMPER WIRE 9P	D20PYY0915E
	CN3001	4P PLUG	KM200TA4

M REGULATOR ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC5009,IC5010	(200mA)	AEK7023
⚠	IC5004,IC5008		NJM78M05FA
⚠	IC5003		NJM78M12FA
⚠	IC5001		NJM78M15FA
⚠	IC5005,IC5007		NJM78M56FA
⚠	IC5006		NJM79M05FA
⚠	IC5002		NJM79M15FA
	D5010,D5051		1SS133
⚠	D5009		D3SBA20(B)
	D5012-D5014		MTZJ10C
	D5011		MTZJ5.1B
⚠	D5001-D5008,D5015-D5017		S5688G

CAPACITORS

Mark	No.	Description	Part No.
	C5015,C5017,C5019,C5021,C5023		CEAT101M10
	C5009,C5011,C5013,C5025		CEAT101M25
	C5024		CEAT101M50
	C5051		CEAT221M10
	C5026		CEAT221M35
	C5027,C5028		CEAT221M50
	C5001,C5003,C5006		CEAT222M25
	C5002,C5004		CEAT222M35
	C5005		CEAT332M25
	C5007		CEAT472M16
	C5008,C5010,C5012,C5014,C5016		CKCYF103Z50
	C5018,C5020,C5022		CKCYF103Z50

RESISTORS

Mark	No.	Description	Part No.
	R5001-R5003		RD1/2PM620J

OTHERS

Mark	No.	Description	Part No.
	5009	4P CABLE HOLDER	51048-0400
	CN5002	14P FFC CONNECTOR	52045-1445
	CN5001	8P JUMPER CONNECTOR	52147-0810
	J5000	BOARD IN WIRE	DB022ND0
	CN5004	16P PLUG	KM200IA16
	CN5005	15P PLUG	KM200TA15
	CN5007	17P PLUG	KM200TA17
	CN5008	7P PLUG	KM200TA7
	CN5003,CN5006	9P PLUG	KM200TA9
	KN5001,KN5002	EARTH METAL FITTING	VNF1084

N TRANS 1 ASSY

TRANS 1 Assy has no service parts.

O TRANS 2-2 ASSY

SEMICONDUCTOR

Mark	No.	Description	Part No.
⚠	IC5501 (4A)		AEK7018

OTHERS

Mark	No.	Description	Part No.
	5501	4P CABLE HOLDER	51048-0400

P VIDEO ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC751		BU4053BCF
	IC752		LC74782M-9011
	IC731		NJM2279M
	IC701		NJM2296M
	Q701		2SA933S
	Q751-Q754		2SC1740S
	Q755		DTC124EK
	D701,D702,D731,D751-D753		1SS355

COILS

Mark	No.	Description	Part No.
	L752,L753	CHIP COIL	LCTA100J3225
	L751	CHIP COIL	LCTA330J3225

CAPACITORS

Mark	No.	Description	Part No.
	C753		CCSQCH100D50
	C763,C772		CCSQCH101J50
	C715,C759		CCSQCH150J50
	C760		CCSQCH180J50
	C705-C707,C731		CCSQCH181J50
	C761,C762		CCSQCH240J50
	C754		CEAT100M50
	C701-C704,C710-C712		CEAT101M10
	C734,C735,C755,C764,C765		CEAT101M10
	C781-C784		CEAT101M10
	C713,C768,C769		CEAT101M16
	C757		CEAT1R0M50
	C752		CEAT330M16
	C791,C795,C797		CKSQYB103K50
	C756		CKSQYB122K50
	C708,C709,C714,C732,C733		CKSQYB473K50
	C736,C766,C767,C770,C771		CKSQYB473K50
	C785,C786,C793		CKSQYB473K50

RESISTORS

Mark	No.	Description	Part No.
	R715		RD1/2VM201J
	Other Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	X751	CRYSTAL RESONATOR (14.31818MHz)	ASS1056
	CN702	21P FFC CONNECTOR	52045-2145
	CN701	26P FFC CONNECTOR	52045-2645
	702	2P PIN JACK	AKB7076
	JA701	3P PIN JACK	AKB7109
	JA703	3P PIN AJCK	AKB7116
	JA705	MULTI HOME JACK	AKN7014
	704	PCB BINDER	VEF1040

Q S-VIDEO ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC831		BU4051BCF
	IC852		BU4053BCF
	IC851		LA7213
	IC801,IC802		NJM2296M
	Q852,Q853		2SA933S
	Q851		DTC124ES
	Q833,Q834		IMH11
	Q831		IMZ1A
	D801,D802,D804,D805,D831		1SS355
	D832,D851		1SS355

CAPACITORS

Mark	No.	Description	Part No.
	C857		CCSQCH100D50
	C854		CCSQCH151J50
	C815-C818,C861,C862		CCSQCH181J50
	C898		CCSQCH221J50
	C809,C858		CCSQCH330J50
	C801,C803,C805,C807		CEAT101M10
	C819-C822,C852,C853,C863		CEAT101M10
	C881,C882		CEAT101M10
	C866,C868		CEAT101M16
	C851		CEAT3R3M50
	C831-C836,C855,C856,C891		CKSQYB103K50

Mark	No.	Description	Part No.
	C893,C894,C899		CKSQYB103K50
	C810-C814,C859,C860		CKSQYB104K25
	C864,C865		CKSQYB104K25
	C802,C804,C806,C808		CKSQYB473K50
	C823-C826,C867,C869		CKSQYB473K50

RESISTORS

	R864		RD1/2VM201J
	R859		RD1/4VM471J
	Other Resistors		RS1/10S□□□J

OTHERS

	CN804	21P FFC CONNECTOR	HLEM21S-1
	CN802,CN803	4P MINI DIN SOCKET	AKP7023
	CN805	6P FFC CONNECTOR	HLEM6S-1
	JA801	4P MINI DIN SOCKET	AKP7049
	JA881,JA882	REMOTE CONTROL JACK	RKN1004
	801	PCB BINDER	VEF1040

R H. PHONE/F. VIDEO ASSY

SEMICONDUCTORS

	Q7201,Q7202		2SC1740S

CAPACITORS

	C7201,C7202,C7215,C7216		CCSQCH271J50
	C7203,C7204		CCSQCH330J50
	C7208,C7209		CEAT101M10
	C7207		CEAT470M35
	C7210,C7212		CKSQYB103K50
	C7211		CKSQYB104K25
	C7213,C7214		CKSQYB105K10
	C7217,C7218		CKSQYB392K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN7201	12P FFC CONNECTOR	52045-1245
	CN7202	FRONT PIN JACK 4P	AKX7007
	JA7201	HEADPHONE JACK	RKB1014
	KN7201	EARTH METAL FITTING	VNF1084

S DISPLAY ASSY

SEMICONDUCTORS

	IC7071		M66311FP
	IC7001		PD5595A
	IC7051		TC7W53FU
	Q7051		2SA1037K
	Q7005		2SC2412K
	Q7001,Q7002,Q7052,Q7054		DTC124EK
	Q7053		FMA1A
	D7007-D7010,D7051-D7057		1SS355
	D7002		SLR-343DC(NPQ)
	D7001,D7071-D7079		SLR-343VR(MNP)

COIL

	L7001		LFA2R2J
	L7011,L7012		LCTA330J3225

Mark	No.	Description	Part No.

SWITCHES

	S7001-S7030		VSG1009

CAPACITORS

	C7010 (0.047μF/5.5V)		ACH7132
	C7007		CCSQCH101J50
	C7008,C7013,C7071		CEAL101M6R3
	C7701,C7702		CEAT100M50
	C7052		CEAT101M6R3
	C7001-C7005,C7011,C7073,C7074		CKSQYB102K50
	C7091		CKSQYB102K50
	C7051		CKSQYB103K50
	C7009,C7072		CKSQYB473K50
	C7053		CKSQYB153K50

RESISTORS

	R7044		RA15T104J
	Other Resistors		RS1/10S□□□J

OTHERS

	X7001	CERAMIC RESONATOR (7.2MHz)	ASS7018
	7001	3P CABLE HOLDER	51052-0300
	7002,7003	8P CABLE HOLDER	51052-0800
	CN7005	5P FFC CONNECTOR	52045-0545
	CN7002	6P FFC CONNECTOR	52045-0645
	CN7003	8P FFC CONNECTOR	52045-0845
	CN7004	12P FFC CONNECTOR	52045-1245
	CN7001	32P FFC CONNECTOR	52045-3245
	V7001	FL TUBE	AAV7063
	505	PCB BINDER	VEF1040

T ROTARY ENCODER ASSY

SWITCH

	S7102		ASX7031

CAPACITORS

	C7101,C7102		CKSQYB103K50

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN7101	6P FFC CONNECTOR	52044-0645

U VOLUME ASSY

SEMICONDUCTORS

	Q7301,Q7302		2SA1993
	Q7303,Q7304		2SC5395
	D7301		1SR154-400

CAPACITORS

	C7301		CEANP100M16
	C7302		CEAT220M50
	C7303		CEAT471M6R3

Mark	No.	Description	Part No.

RESISTORS

	VR7301	(VARIABLE WITH MOTOR)	ACX7037
	Other Resistors		RS1/10S□□□J

OTHERS

	CN7301	8P FFC CONNECTOR	52045-0845
	KN7301	EARTH METAL FITTING	VNF1084

V PRIMARY ASSY

SEMICONDUCTORS

⚠	IC6001		NJM78M56FA
	Q6001		DTC143ES
	D6005-D6007		1SS133
	D6008		MTZJ5.1A
⚠	D6001-D6004		S5688G

COIL

⚠	L6001	LINE FILTER	ATF1006

TRANSFORMER

⚠	T6001	STANDBY TRANS.	ATT7043

RELAY

⚠	RY6001	POWER RELAY	ASR7022

CAPACITORS

⚠	C6002,C6003	(10000pF/AC250V)	ACG7020
	C6005		CEAT102M16
	C6006		CEAT470M25
	C6004		CKCYF103Z50

RESISTORS

	R6001	(2.2MΩ, 1/2W)	RCN1080
	R6003		RD1/2PM270J
	Other Resistors		RD1/4PU□□□J

OTHERS

⚠	6004	3P AC OUTLET	AKP1053
	H6001,H6002	FUSE CLIP	AKR1004
	CN6003	4P SOCKET	KP200TA4L
⚠	CN6002	AC CORD SOCKET	RKP1751
	6005	PCB BINDER	VEF1040
	6002,6003	SCREW TERMINAL	VNE1948

W RF/DIGITAL IN ASSY

SEMICONDUCTORS

	IC1201		TC74HCU04AF

COILS AND FILTERS

	F1203-F1206	CHIP BEAD	DTF1064

CAPACITORS

	C1204,C1211		CCSQCH470J50
	C1206,C1213		CEAT470M10
	C1203,C1210,C1250		CKSQYB103K50
	C1207,C1212,C1215,C1216		CKSQYF104Z25
	C1236,C1237		CKSQYF104Z25
	C1251		CKSQYF473Z25

Mark	No.	Description	Part No.

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN1201	13P FFC CONNECTOR	HLEM13S-1
	CN1202	4P FFC CONNECTOR	HLEM4S-1
	JA1204	3P PIN JACK	AKB7092
	JA1201,JA1202,JA1203	OPTICAL RECEIVE MOD.	GP1FA551RZ
	CN1250	3P PLUG	KM250MA3
	1200	PCB BINDER	VEF1040

X OPT OUT ASSY

CAPACITORS

	C1271,C1272		CKSQYF104Z50
	C1273,C1274		CEAT221M10

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	CN1271	4P FFC CONNECTOR	HLEM4S-1
	JA1271,JA1272	OPTICAL LINK MOD.	GP1FA551TZ

Y DSP ASSY

SEMICONDUCTORS

	IC9351		AK7706VT
	IC9301		CS493292
	IC9203		CS5360-KS
	IC9101		CS8414-CS
	IC9201,IC9202		NJM2100M
	IC9041		NJM4558MD
	IC9401,IC9421,IC9441,IC9461		PCM1716E4
	IC9501		PD5590A
	IC9304		PDN030A
	IC9071		PM4007A
	IC9391		PQ7VZ5
	IC9392		PQ20WZ51
	IC9091		LH52256CN-70LL
	IC9305		TC74LVX244FT
	IC9352		TC551001CST-70L
	IC9151		TC74ACT151F
	IC9102		TC74VHC157FT
	IC9302,IC9303		TC74VHC574F
	IC9306		TC74VHCT244AFT
	IC9309		TC7W125FU
	IC9204,IC9307		TC7WU04FU
	IC9601		TC9164AF
	IC9308		TC9246F
	IC9602-IC9705,IC9701-IC9706		UPC4570G2
	Q9007		2PB709A
	Q9003,Q9032		2PD601A
	Q9001,Q9002,Q9004-Q9006,Q9031		2SC3082K
	Q9201,Q9202,Q9601-Q9606		2SC3326
	Q9611,Q9612		2SC3326
	Q9102,Q9104,Q9203,Q9607		DTA124EK
	Q9609,Q9610		DTA124EK
	Q9101,Q9103,Q9204,Q9205,Q9608		DTC124EK

Mark	No.	Description	Part No.
	Q9500		DTA144EK
	D9601,D9602		1SS181
	D9201-D9204		1SS226
	D9002,D9501,D9502		1SS355
	D9001		KV1851

COILS AND FILTERS

Mark	No.	Description	Part No.
	F9001	BPF	ATF7001
	L9003	INDUCTOR	ATH7001
	L9071,L9391,L9392,L9401,L9402	CHIP FERRITE BEAD	ATL7002
	L9421,L9422,L9441,L9442	CHIP FERRITE BEAD	ATL7002
	L9461,L9462,L9481,L9482,L9801	CHIP FERRITE BEAD	ATL7002
	L9807,L9809	CHIP FERRITE BEAD	ATL7002
	F9091,F9092,F9102,F9106-F9108		DTF1064
	F9111,F9151,F9152,F9201,F9301		DTF1064
	F9302,F9306,F9308,F9352,F9501	CHIP BEAD	DTF1064
	L9105,L9203,L9204,L9206,L9207	CHIP SOLID INDUCTOR	QTL1013
	L9303	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

Mark	No.	Description	Part No.
	C9231,C9232,C9493-C9496,C9809		CCSQCH221J50
	C9815,C9816		CCSQCH221J50
	C9076,C9104,C9106,C9112,C9154		CCSQCH271J50
	C9502		CCSQCH271J50
	C9224,C9225		CCSQCH330J50
	C9303,C9305,C9307,C9315,C9318		CCSQCH471J50
	C9320,C9322,C9325,C9328,C9353		CCSQCH471J50
	C9355,C9357,C9359,C9361,C9364		CCSQCH471J50
	C9368		CCSQCH471J50
	C9504,C9505		CCSQCH7R0D50
	C9033,C9313,C9609,C9610		CCSRCH101J50
	C9721,C9722,C9735		CCSRCH101J50
	C9310		CCSRCH180J50
	C9791,C9792		CCSRCH201J50
	C9311		CCSRCH220J50
	C9095,C9621,C9622,C9742-C9746		CCSRCH221J50
	C9761-C9766,C9779-C9782		CCSRCH221J50
	C9057,C9201,C9202		CCSRCH270J50
	C9214,C9220,C9309,C9403,C9423		CCSRCH271J50
	C9443,C9463,C9629		CCSRCH271J50
	C9719,C9720,C9733,C9775,C9776		CCSRCH331J50
	C9741		CCSRCH470J50
	C9333,C9571,C9617,C9618,C9639		CCSRCH471J50
	C9211,C9717,C9718,C9731,C9808		CCSRCH561J25
	C9773,C9774		CCSRCH561J25
	C9777,C9778		CCSRCH680J50
	C9007		CCSRCH750J50
	C9707,C9708		CCSRCH820J50
	C9611,C9612		CCSRCH821J25
	C9481		CEAT221M10
	C9338		CEAT471M10
	C9091,C9102,C9108,C9114,C9151		CEJA470M16
	C9362		CEJA470M16
	C9016		CEJA470M25
	C9323,C9326,C9331,C9366		CEJQ100M25
	C9643,C9644,C9756		CEJQ100M25
	C9071,C9301,C9316,C9351,C9392		CEJQ101M10
	C9395,C9501,C9740,C9801		CEJQ101M10
	C9329		CEJQ2R2M50
	C9216,C9219,C9222,C9401,C9405		CEJQ330M10
	C9408,C9421,C9425,C9428,C9441		CEJQ330M10
	C9337		CEJQ470M10
	C9803,C9805		CEJQ470M25
	C9406,C9409,C9426,C9429,C9446		CEJQ470M6R3
	C9449,C9466,C9469		CEJQ470M6R3
	C9206,C9207,C9391,C9394		CEJQ4R7M50
	C9053		CEJQNP4R7M25
	C9110		CEJQR47M50
	C9713,C9714,C9727,C9728,C9739		CEWAR330M10
	C9751-C9755,C9757,C9758		CEWAR330M10
	C9785,C9786		CEWAR330M10
	C9203,C9204,C9603,C9604		CEWAR4R7M50
	C9615,C9616,C9627,C9628		CEWAR4R7M50
	C9789,C9790		CEWAR4R7M50
	C9070,C9103,C9107,C9113,C9153		CKSQYB103K50
	C9217,C9223,C9302,C9304,C9306		CKSQYB103K50
	C9314,C9317,C9319,C9321,C9324		CKSQYB103K50
	C9327,C9336,C9352,C9354,C9356		CKSQYB103K50
	C9358,C9360,C9363,C9367		CKSQYB103K50
	C9507,C9508		CKSQYB103K50
	C9334		CKSQYB123K50
	C9335		CKSQYB474K16
	C9509		CKSQYF103Z50
	C9043,C9058,C9073-C9075,C9078		CKSQYF104Z25
	C9080,C9205,C9208,C9503		CKSQYF104Z25
	C9212,C9575		CKSRYB102K50
	C9014,C9054,C9056,C9105,C9158		CKSRYB103K50
	C9221,C9308,C9332,C9402,C9422		CKSRYB103K50
	C9442,C9462,C9506,C9636,C9637		CKSRYB103K50
	C9626,C9730		CKSRYB104K16
	C9605,C9606,C9633,C9795,C9796		CKSRYB122K50
	C9703,C9704,C9715,C9716,C9729		CKSRYB182K50
	C9771,C9772		CKSRYB182K50
	C9601,C9602,C9613,C9614,C9625		CKSRYB222K50
	C9787,C9788		CKSRYB222K50
	C9701,C9702		CKSRYB272K50
	C9732		CKSRYB333K16
	C9645		CKSRYB472K50
	C9215,C9218,C9404,C9407,C9424		CKSRYB473K16
	C9427,C944,C9447,C9464,C9467		CKSRYB473K16
	C9111		CKSRYB682K50
	C9020		CKSRYB683K16
	C9736		CKSRYB821K50
	C9002-C9006,C9008-C9013,C9015		CKSRYF104Z16
	C9017,C9018,C9031,C9032		CKSRYF104Z16
	C9051,C9052,C9055,C9077,C9079		CKSRYF104Z16
	C9081,C9092,C9209,C9210		CKSRYF104Z16
	C9607,C9608,C9619,C9620		CKSRYF104Z16
	C9631,C9632,C9709-C9712		CKSRYF104Z16
	C9723-C9726,C9737,C9738		CKSRYF104Z16
	C9783,C9784,C9793,C9794		CKSRYF104Z16
	C9041,C9042		CKSRYF105Z10
	C9312		CKSRYF224Z16

RESISTORS

Mark	No.	Description	Part No.
	R9575		ACN7060
	R9571		DCN1092
	R9377,R9378		DCN1094
	R9036,R9099,R9119,R9130,R9131		RS1/10S0R0J

Mark	No.	Description	Part No.
	R9158,R9160,R9320,R9321,R9336		RS1/10S0R0J
	R9343,R9387,R9401,R9421,R9441		RS1/10S0R0J
	R9461,R9902-R9904,R9906		RS1/10S0R0J
	R9908,R9909,R9999		RS1/10S0R0J
	R9103,R9333,R9531-R9535		RS1/10S101J
	R9226,R9239,R9510,R9520		RS1/10S102J
	R9524-R9529		RS1/10S102J
	R9214,R9550		RS1/10S103J
	R9335		RS1/10S120J
	R9074,R9128		RS1/10S221J
	R9120,R9369		RS1/10S331J
	R9331		RS1/10S332J
	R9332		RS1/10S391J
	R9061,R9105		RS1/10S471J
	R9112		RS1/10S561J
	R9763,R9764		RS1/10S822J
	R9391,R9392		RS1/16S1201F
	R9396		RS1/16S2001F
	Other Resistors		RS1/16S□□□J

OTHERS

Mark	No.	Description	Part No.
	X9001	CRYSTAL RESONATOR (18.432MHz)	ASS7009
	X9501	CRYSTAL RESONATOR (20MHz)	ASS7032
	X9201	CRYSTAL RESONATOR (12.288MHz)	DSS1030
	X9301	CHIP RESONATOR (27.0MHz)	VSS1086
	CN9571	7P FFC CONNECTOR	HLEM7S-1
	CN9581,CN9803	13P FFC CONNECTOR	HLEM13S-1
	CN9804	3P PLUG	KM250MA3
	CN9801	17P SOCKET	KP200TA17L
	CN9802	9P SOCKET	KP200TA9L
	CN9501	8P FFC CONNECTOR	VKN1598

Z COMPONENT ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC1501		TC74HC4053AF
	IC1502,IC1503		TK15420M
	IC1504		TC7S86F
	IC1505		TC7S00F
	Q1501-Q1503		DTC124EK

CAPACITORS

Mark	No.	Description	Part No.
	C1505,C1506,C1509-C1512		CKSQYB103K50
	C1516-C1518		CKSQYB103K50
	C1501-C1504,C1507,C1508		CEAT101M10

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN1501	6P FFC CONNECTOR	HLEM6S-1
	JA1502	3P PIN JACK	AKB7125
	JA1501	6P PIN JACK	AKB7127

AA 2CH I/O PJ ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC8001		UPC4570G2
	Q8001,Q8002		HN1C03F

CAPACITORS

Mark	No.	Description	Part No.
	C8001,C8002		CCSQCH101J50
	C8027,C8028,C8032		CCSQCH221J50
	C8007,C8008,C8031		CKSQYF104Z25
	C8025,C8026		CEAL100M50
	C8003,C8004,C8009,C8010		CEAL4R7M50
	C8035,C8036		CEJA470M25

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN8002	9P FFC CONNECTOR	HLEM9S-1
	JA8004	4P PIN JACK	AKB7129

AB TRIM ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC8002		TC9215AF
	IC8003		TC9459F
	IC8004		UPC4570G2

CAPACITORS

Mark	No.	Description	Part No.
	C8019,C8020		CCSQCH331J50
	C8021,C8022		CCSQCH560J50
	C8011,C8012,C8015,C8016,C8023		CKSQYF104Z25
	C8024,C8039		CKSQYF104Z25
	C8017,C8018		CEAL100M50
	C8033,C8034		CEJA470M25

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/10S□□□J

OTHERS

Mark	No.	Description	Part No.
	CN8001	13P FFC CONNECTOR	HLEM13S-1
	CN8003	9P FFC CONNECTOR	HLEM9S-1
	8001	SCREW TERMINAL	VNE1948

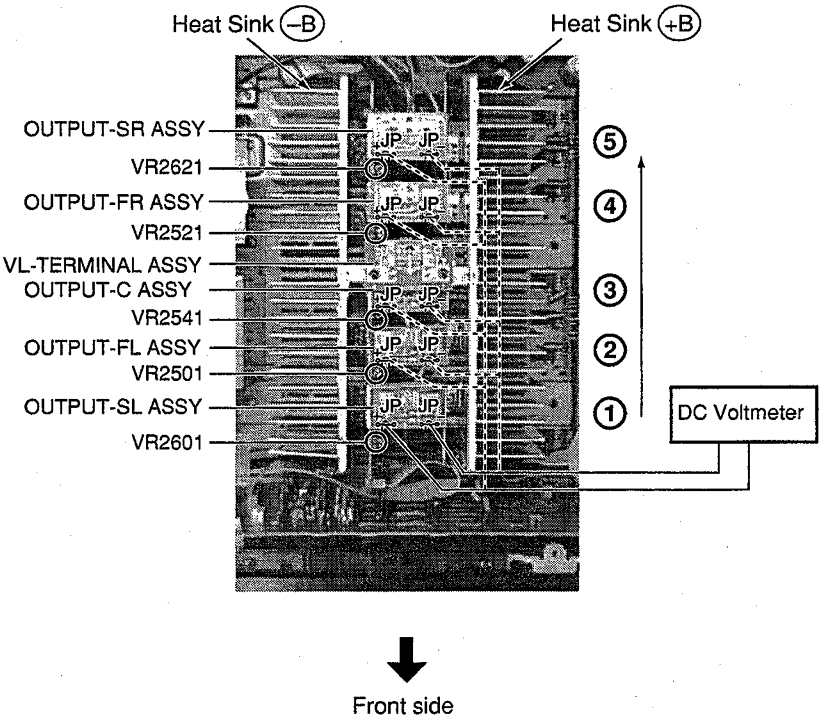
6. ADJUSTMENT

6.1 IDLE CURRENT ADJUSTMENT

- **CAUTION** : Heatsink's DC level is equal to +B or -B.
  Don't touch them or you will be electricary shocked.

1. Decrease the level of the Adjustment Variable resistors (VR) for the channel to be adjusted. (Turn counterclockwise.)
2. Set the power switch to ON.
3. Connect the DC voltmeter as shown below and adjust VRs in step No. order so that voltages become $16\text{mV}\,^{+4\text{mV}}_{-0\text{mV}}$.
4. Ages for seven minutes.
5. Readjust in step No. order so that the voltages become 11.5mV ± 1mV (10.5 to 12.5mV). Adjustment is completed.

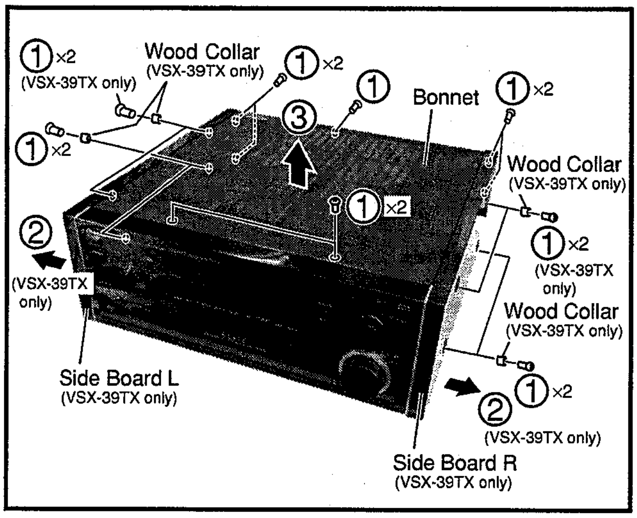
Step No.	Adjustment VR	Adjustment ch
1	VR2601	SL ch
2	VR2501	FL ch
3	VR2541	C ch
4	VR2521	FR ch
5	VR2621	SR ch


Heat Sink (-B)
Heat Sink (+B)
OUTPUT-SR ASSY
VR2621
OUTPUT-FR ASSY
VR2521
VL-TERMINAL ASSY
OUTPUT-C ASSY
VR2541
OUTPUT-FL ASSY
VR2501
OUTPUT-SL ASSY
VR2601
JP
⑤
④
③
②
①
DC Voltmeter
Front side

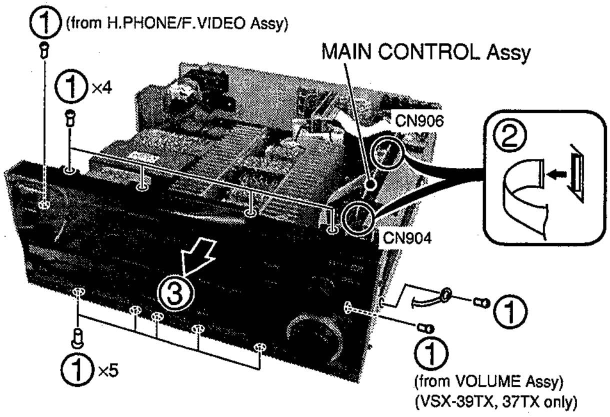
7. GENERAL INFORMATION

7.1 DISASSEMBLY

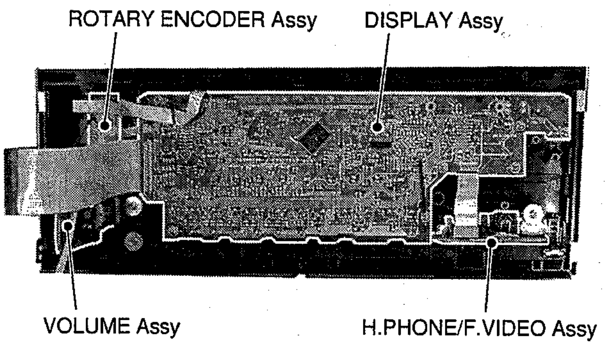
■ Bonnet


①×2
(VSX-39TX only)
Wood Collar
(VSX-39TX only)
①×2
①
Bonnet
①×2
③
①×2
Wood Collar
(VSX-39TX only)
①×2
②
(VSX-39TX only)
①×2
(VSX-39TX only)
Wood Collar
(VSX-39TX only)
Side Board L
(VSX-39TX only)
②
①×2
(VSX-39TX only)
Side Board R
(VSX-39TX only)

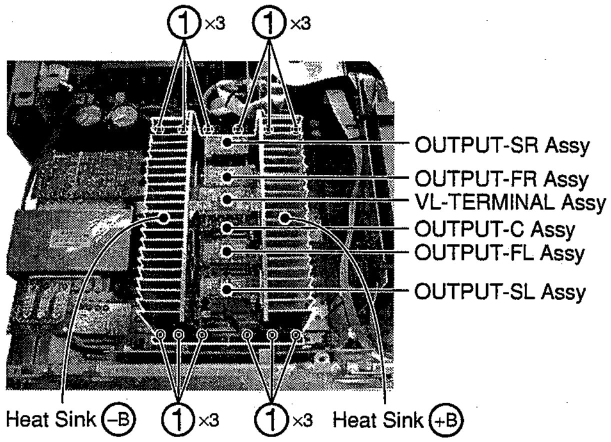
■ Front Panel Section


① (from H.PHONE/F.VIDEO Assy)
MAIN CONTROL Assy
①×4
CN906
②
CN904
③
①
①×5
①
(from VOLUME Assy)
(VSX-39TX, 37TX only)

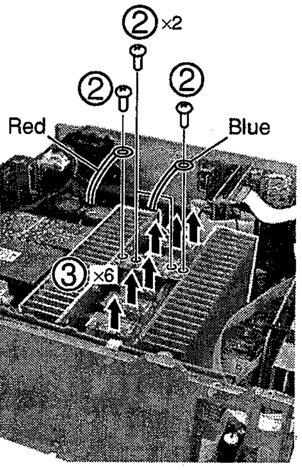
• PCB Location (Front Panel Section)

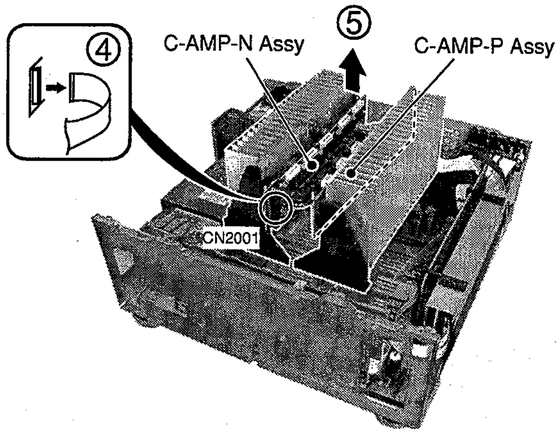

ROTARY ENCODER Assy
DISPLAY Assy
VOLUME Assy
H.PHONE/F.VIDEO Assy

■ Heat Sink Section


①×3
①×3
OUTPUT-SR Assy
OUTPUT-FR Assy
VL-TERMINAL Assy
OUTPUT-C Assy
OUTPUT-FL Assy
OUTPUT-SL Assy
Heat Sink (-B)
①×3
①×3
Heat Sink (+B)

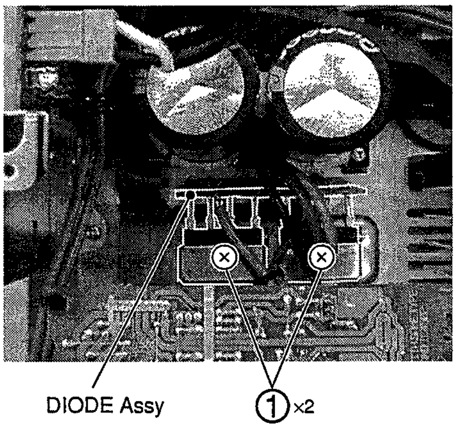
- **CAUTION** : Heatsink's DC level is equal to +B or - B. Don't touch them or you will be electricary shocked.


②×2
②
②
Red
Blue
③×6


④
C-AMP-N Assy
⑤
C-AMP-P Assy
CN2001

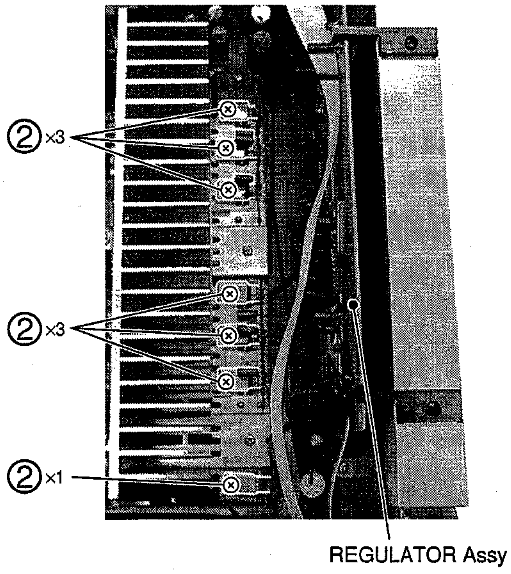
■ DIODE and REGULATOR Assemblies

• DIODE Assy


DIODE Assy
①×2

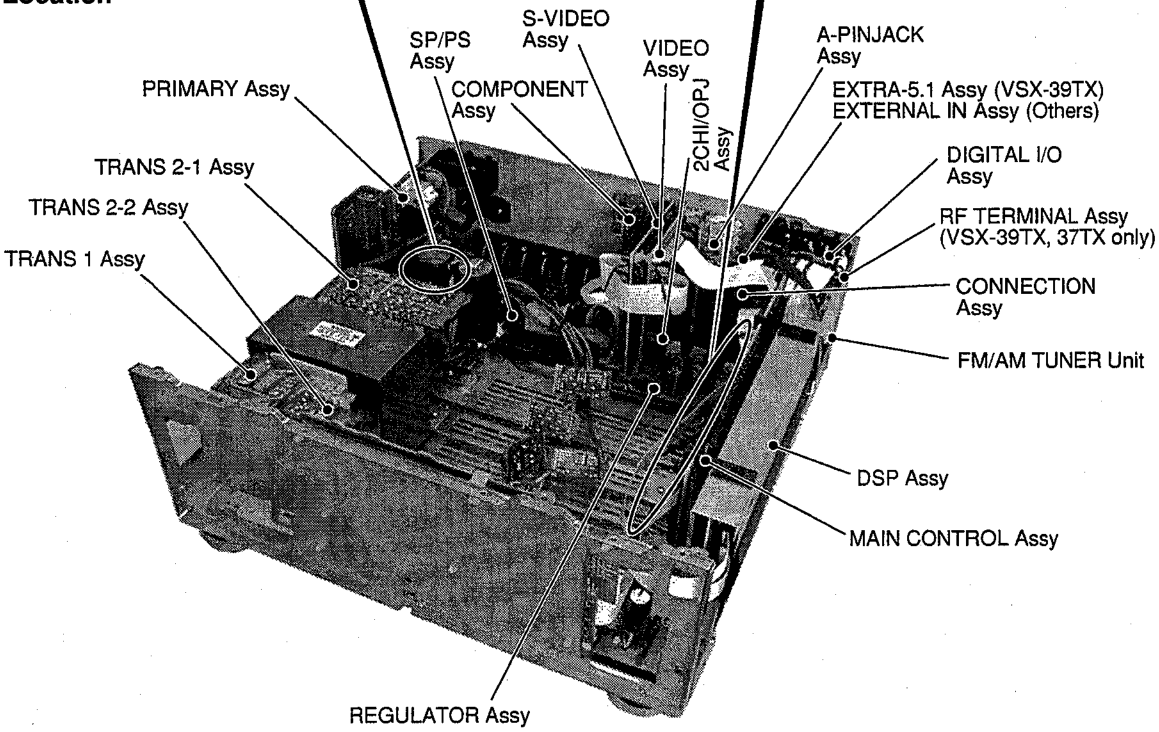
Replace the diode.

• REGULATOR Assy


②×3
②×3
②×1
REGULATOR Assy

Replace the Regulator IC.

• PCB Location


PRIMARY Assy
TRANS 2-1 Assy
TRANS 2-2 Assy
TRANS 1 Assy
SP/PS Assy
COMPONENT Assy
S-VIDEO Assy
VIDEO Assy
2CHI/OPJ Assy
A-PINJACK Assy
EXTRA-5.1 Assy (VSX-39TX)
EXTERNAL IN Assy (Others)
DIGITAL I/O Assy
RF TERMINAL Assy (VSX-39TX, 37TX only)
CONNECTION Assy
FM/AM TUNER Unit
DSP Assy
MAIN CONTROL Assy
REGULATOR Assy

7.2 PARTS

7.2.1 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

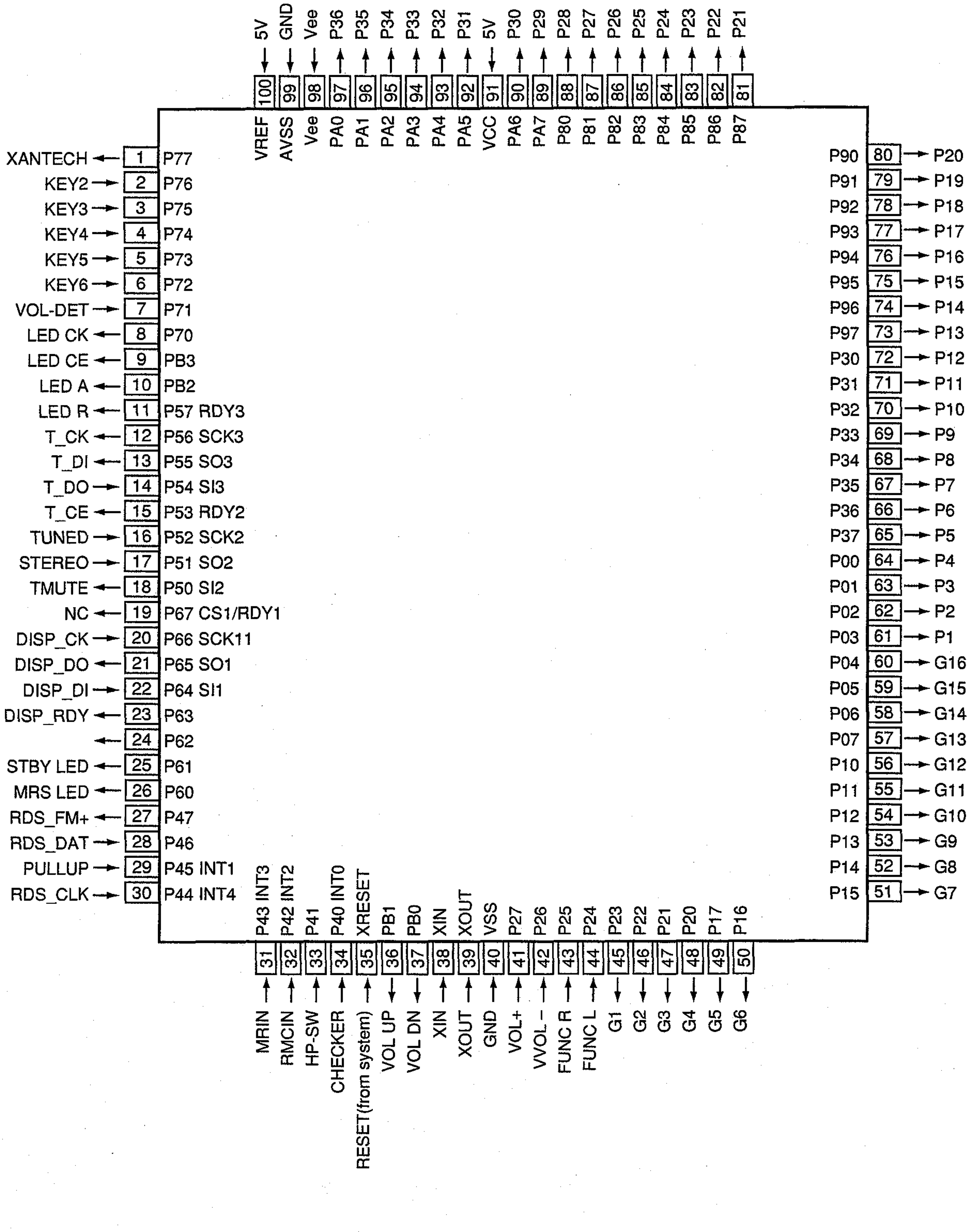
●List of IC

PD5595A, PD5589A

■ PD5595A (DISPLAY ASSY : IC7001)

- **Display Control IC**

● Pin Assignment (Top View)


5V 100 VREF
GND 99 AVSS
Vee 98 Vee
P36 97 PA0
P35 96 PA1
P34 95 PA2
P33 94 PA3
P32 93 PA4
P31 92 PA5
5V 91 VCC
P30 90 PA6
P29 89 PA7
P28 88 P80
P27 87 P81
P26 86 P82
P25 85 P83
P24 84 P84
P23 83 P85
P22 82 P86
P21 81 P87
XANTECH 1 P77
KEY2 2 P76
KEY3 3 P75
KEY4 4 P74
KEY5 5 P73
KEY6 6 P72
VOL-DET 7 P71
LED CK 8 P70
LED CE 9 PB3
LED A 10 PB2
LED R 11 P57 RDY3
T_CK 12 P56 SCK3
T_DI 13 P55 SO3
T_DO 14 P54 SI3
T_CE 15 P53 RDY2
TUNED 16 P52 SCK2
STEREO 17 P51 SO2
TMUTE 18 P50 SI2
NC 19 P67 CS1/RDY1
DISP_CK 20 P66 SCK11
DISP_DO 21 P65 SO1
DISP_DI 22 P64 SI1
DISP_RDY 23 P63
24 P62
STBY LED 25 P61
MRS LED 26 P60
RDS_FM+ 27 P47
RDS_DAT 28 P46
PULLUP 29 P45 INT1
RDS_CLK 30 P44 INT4
P90 80 P20
P91 79 P19
P92 78 P18
P93 77 P17
P94 76 P16
P95 75 P15
P96 74 P14
P97 73 P13
P30 72 P12
P31 71 P11
P32 70 P10
P33 69 P9
P34 68 P8
P35 67 P7
P36 66 P6
P37 65 P5
P00 64 P4
P01 63 P3
P02 62 P2
P03 61 P1
P04 60 G16
P05 59 G15
P06 58 G14
P07 57 G13
P10 56 G12
P11 55 G11
P12 54 G10
P13 53 G9
P14 52 G8
P15 51 G7
P43 INT3 31 MRIN
P42 INT2 32 RMCIN
P41 33 HP-SW
P40 INT0 34 CHECKER
XRESET 35 RESET(from system)
PB1 36 VOL UP
PB0 37 VOL DN
XIN 38 XIN
XOUT 39 XOUT
VSS 40 GND
P27 41 VOL+
P26 42 VVOL –
P25 43 FUNC R
P24 44 FUNC L
P23 45 G1
P22 46 G2
P21 47 G3
P20 48 G4
P17 49 G5
P16 50 G6

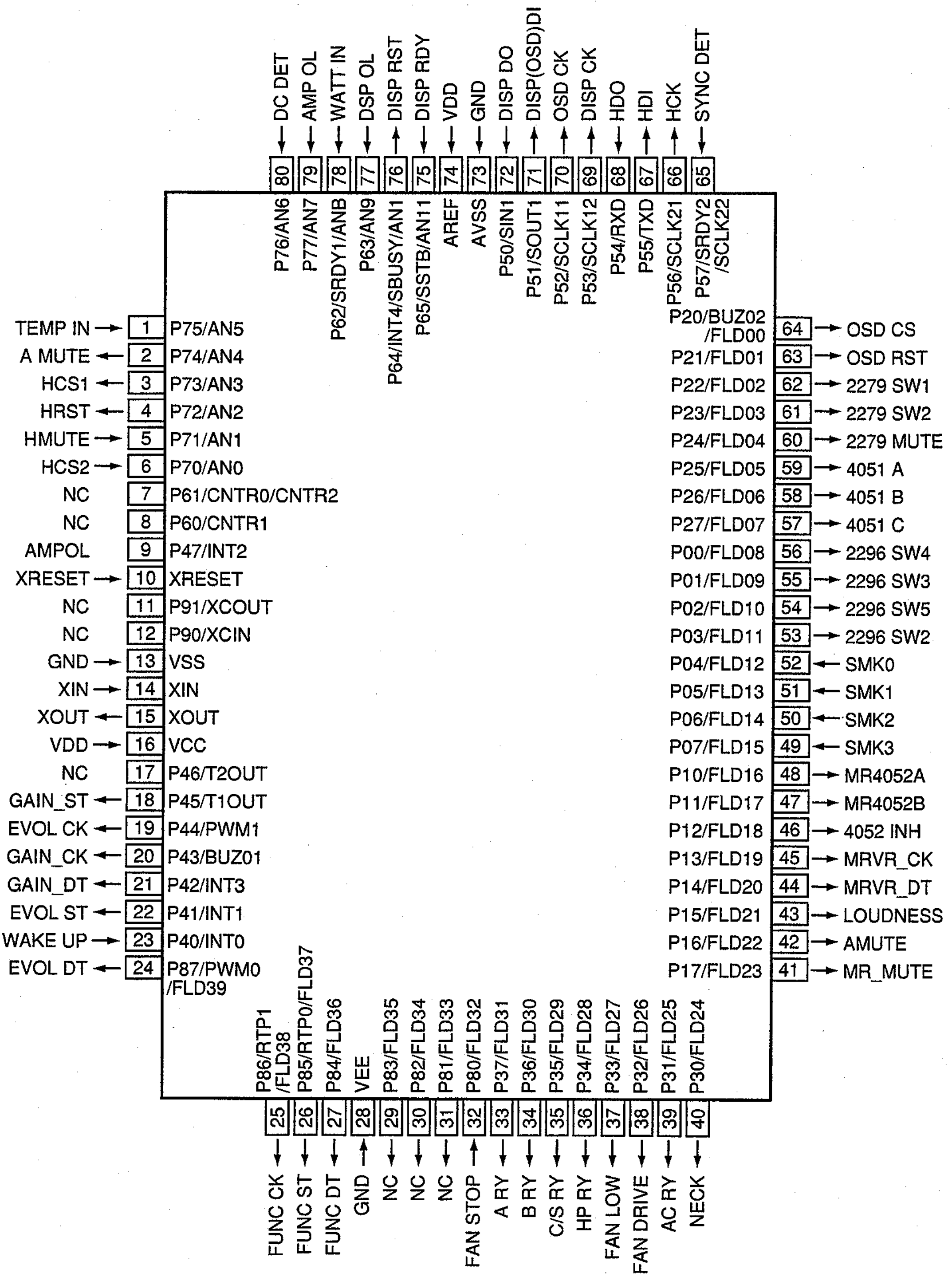
• Pin Function

No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	XANTECH	O	XANTECH ON/OFF	51	G7	O	Grid output 7
2	KEY 2	I	Key scan input 2	52	G8	O	Grid output 8
3	KEY 3	I	Key scan input 3	53	G9	O	Grid output 9
4	KEY 4	I	Key scan input 4	54	G10	O	Grid output 10
5	KEY 5	I	Key scan input 5	55	G11	O	Grid output 11
6	KEY 6	I	Key scan input 6	56	G12	O	Grid output 12
7	VOL-DET	I	Detection of volume position	57	G13	O	Grid output 13
8	LED CKL	O	Clock for IC7071 M66311	58	G14	O	Grid output 14
9	LED OE	O	Output enable for IC7071 M66311	59	G15	O	Grid output 15
10	LED A	O	Data for IC7071 M66311	60	G16	O	Grid output 16
11	LED R	O	Reset for IC7071 M66311	61	S1	O	Segment output 1
12	T-CK	O	Clock for tuner module	62	S2	O	Segment output 2
13	T-DI	O	Data for tuner module	63	S3	O	Segment output 3
14	T-DO	I	Data from tuner module	64	S4	O	Segment output 4
15	T-CE	O	Chip enable for tuner module	65	S5	O	Segment output 5
16	TUNED	I	Tuned data from tuner module	66	S6	O	Segment output 6
17	STEREO	I	Stereo tuned data from tuner module	67	S7	O	Segment output 7
18	T-MUTE	O	Tuner mute ON/OFF	68	S8	O	Segment output 8
19	NC	O	Open	69	S9	O	Segment output 9
20	DISP CK	I	Clock from IC901 MAIN U-COM	70	S10	O	Segment output 10
21	DISP DO	O	Data for IC901 MAIN U-COM	71	S11	O	Segment output 11
22	DISP DI	I	Data from IC901 MAIN U-COM	72	S12	O	Segment output 12
23	DISP RDY	O	Data request for IC901 MAIN U-COM	73	S13	O	Segment output 13
24	NC	–	Open	74	S14	O	Segment output 14
25	STBY LED	O	Standby LED	75	S15	O	Segment output 15
26	MRS LED	O	Sub room LED (MR&S model), EON LED (RDS model)	76	S16	O	Segment output 16
27	RDS FM+	–	VDD for IC7401 BU1923 (RDS model only)	77	S17	O	Segment output 17
28	RDS DAT	O	Data for IC7401 BU1923 (RDS model only)	78	S18	O	Segment output 18
29	NC	I	(pull-up)	79	S19	O	Segment output 19
30	RDS CLK	I	Clock for IC7401 BU1923 (RDS model only)	80	S20	O	Segment output 20
31	MR IN	I	Sub room remote control (MR&S, MR model only)	81	S21	O	Segment output 21
32	RMC IN	I	Remote control	82	S22	O	Segment output 22
33	HP-SW	I	Headphone connect detect	83	S23	O	Segment output 23
34	NC	I	For unit check test mode detection	84	S24	O	Segment output 24
35	RESET	I	Reset	85	S25	O	Segment output 25
36	VOL/UP	O	Control for VOIL UP	86	S26	O	Segment output 26
37	VOL/DN	O	Control for VOL DOWN	87	S27	O	Segment output 27
38	XIN	–	Connect a 7.2MHz oscillator	88	S28	O	Segment output 28
39	XOUT	–		89	S29	O	Segment output 29
40	VSS	–	GND	90	S30	O	Segment output 30
41	VOL+	I	Rotary encoder signal +	91	VCC	–	Power supply +5V
42	VOL-	I	Rotary encoder signal -	92	S31	O	Segment output 31
43	FUNC/R	I	Rotary encoder signal R	93	S32	O	Segment output 32
44	FUNC/L	I	Rotary encoder signal L	94	S33	O	Segment output 33
45	G1	O	Grid output 1	95	S34	O	Segment output 34
46	G2	O	Grid output 2	96	S35	O	Segment output 35
47	G3	O	Grid output 3	97	S36	O	Segment output 36
48	G4	O	Grid output 4	98	VEE	–	Power supply 5V
49	G5	O	Grid output 5	99	AVSS	–	GND
50	G6	O	Grid output 6	100	VREF	–	Reference voltage 5V

■ PD5589A (MAIN CONTROL ASSY : IC901)

• Main Control IC

• Pin Assignment (Top View)


DC DET
80 P76/AN6
AMP OL
79 P77/AN7
WATT IN
78 P62/SRDY1/ANB
DSP OL
77 P63/AN9
DISP RST
76 P64/INT4/SBUSY/AN1
DISP RDY
75 P65/SSTB/AN11
VDD
74 AREF
GND
73 AVSS
DISP DO
72 P50/SIN1
DISP(OSD)DI
71 P51/SOUT1
OSD CK
70 P52/SCLK11
DISP CK
69 P53/SCLK12
HDO
68 P54/RXD
HDI
67 P55/TXD
HCK
66 P56/SCLK21
SYNC DET
65 P57/SRDY2/SCLK22
TEMP IN
1 P75/AN5
A MUTE
2 P74/AN4
HCS1
3 P73/AN3
HRST
4 P72/AN2
HMUTE
5 P71/AN1
HCS2
6 P70/AN0
NC
7 P61/CNTR0/CNTR2
NC
8 P60/CNTR1
AMPOL
9 P47/INT2
XRESET
10 XRESET
NC
11 P91/XCOUT
NC
12 P90/XCIN
GND
13 VSS
XIN
14 XIN
XOUT
15 XOUT
VDD
16 VCC
NC
17 P46/T2OUT
GAIN_ST
18 P45/T1OUT
EVOL CK
19 P44/PWM1
GAIN_CK
20 P43/BUZ01
GAIN_DT
21 P42/INT3
EVOL ST
22 P41/INT1
WAKE UP
23 P40/INT0
EVOL DT
24 P87/PWM0/FLD39
P20/BUZ02/FLD00
64
OSD CS
P21/FLD01
63
OSD RST
P22/FLD02
62
2279 SW1
P23/FLD03
61
2279 SW2
P24/FLD04
60
2279 MUTE
P25/FLD05
59
4051 A
P26/FLD06
58
4051 B
P27/FLD07
57
4051 C
P00/FLD08
56
2296 SW4
P01/FLD09
55
2296 SW3
P02/FLD10
54
2296 SW5
P03/FLD11
53
2296 SW2
P04/FLD12
52
SMK0
P05/FLD13
51
SMK1
P06/FLD14
50
SMK2
P07/FLD15
49
SMK3
P10/FLD16
48
MR4052A
P11/FLD17
47
MR4052B
P12/FLD18
46
4052 INH
P13/FLD19
45
MRVR_CK
P14/FLD20
44
MRVR_DT
P15/FLD21
43
LOUDNESS
P16/FLD22
42
AMUTE
P17/FLD23
41
MR_MUTE
P86/RTP1/FLD38
25
FUNC CK
P85/RTP0/FLD37
26
FUNC ST
P84/FLD36
27
FUNC DT
VEE
28
GND
P83/FLD35
29
NC
P82/FLD34
30
NC
P81/FLD33
31
NC
P80/FLD32
32
FAN STOP
P37/FLD31
33
A RY
P36/FLD30
34
B RY
P35/FLD29
35
C/S RY
P34/FLD28
36
HP RY
P33/FLD27
37
FAN LOW
P32/FLD26
38
FAN DRIVE
P31/FLD25
39
AC RY
P30/FLD24
40
NECK

• Pin Function

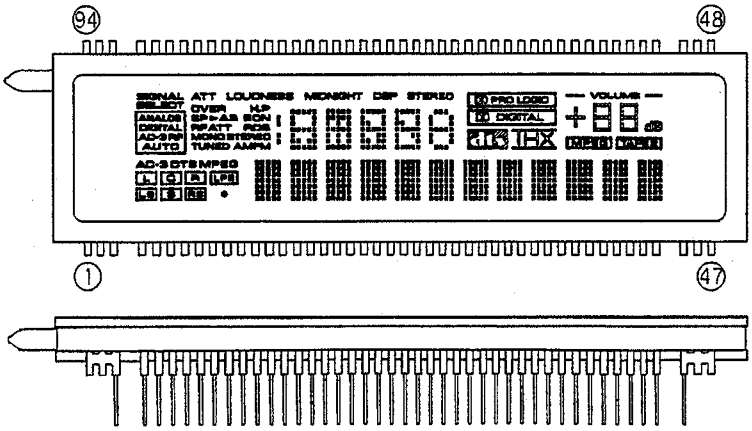
No.	Pin Name	I/O	Function	No.	Pin Name	I/O	Function
1	TEMP IN	I/O	O/open (KU,J,SD), I/Fan temperature A/D input (other)	41	MR MUTE	O	Audio mute ON/OFF for sub room (MR&S, MR model only)
2	A MUTE	O	Audio mute ON/OFF	42	A MUTE2	O	Audio preout mute ON/OFF
3	DSP CS1	O	Chip select for IC9501 DSP U-COM	43	LOUD	O	Loudness ON/OFF
4	DSP RST	O	Reset for IC9501 DSP U-COM	44	MR-V DT	O	Data for IC110 M62429FP control (MR&S model only)
5	DSP MUTE	I	Mute request from IC9501 DSP U-COM	45	MR-V CK	O	Clock for IC110 M62429FP control (MR&S model only)
6	DSP CS2	I	Chip select from IC9501 DSP U-COM	46	4052 INH	O	Inhibit for IC102 BU4052BCF control (MR&S model only)
7	NC	O	Open	47	4052 B	O	Control for IC102 BU4052BCF (MR&S model only)
8	NC	O	Open	48	4052 A		
9	AMPOL	I	Amp Overload detect	49	SIMUKE 3	I	SIMUKE (pull-up or down)
10	RESET	I	Reset	50	SIMUKE 2		
11	NC	O	Open	51	SIMUKE 1		
12	NC	O	Open	52	SIMUKE 0		
13	GND	–	GND	53	2296-2	O	Control for IC701, 801, 802 NJM2296M
14	XIN	I	Connect a 4.19MHz oscillator	54	2296-5		
15	XOUT	O		55	2296-3		
16	VDD	–	Power supply +5V	56	2296-4		
17	NC	O	Open	57	4051-C	O	Control for IC831 BU4051BCF
18	ST3	O	Strobe for IC107 TC9163F control	58	4051-B		
19	CK2	O	Clock for IC108 TC9482N control	59	4051-A		
20	CK3	O	Clock for IC107 TC9163F control	60	2279-M	O	Control for IC731 NJM2279M (MR&S model only)
21	DT3	O	Data for IC107 TC9163F control	61	2279-2		
22	ST2	O	Strobe for IC108 TC9482N control	62	2279-1		
23	W.UP	I	AC pulse input	63	OSD RST	O	Reset for IC752 LC74782M-9011
24	DT2	O	Data for IC108 TC9482N control	64	OSD CS	O	Chip select for IC752 LC74782M-9011
25	CK1	O	Clock for IC101 TC9274N and IC104 TC9163F control	65	SYNC DET	I	Detection of synchronizing signal
26	ST1	O	Strobe for IC101 TC9274N and IC104 TC9163F control	66	DSP HCK	O	Clock for IC9501 DSP U-COM
27	DT1	O	Data for IC101 TC9274N and IC104 TC9163F control	67	DSP HDI	O	Data for IC9501 DSP U-COM
28	GND	–	GND	68	DSP HDO	I	Data from IC9501 DSP U-COM
29	NC	O	Open	69	DISP CK	O	Clock for IC7001 DISP U-COM
30	NC	O	Open	70	OSD CK	O	Clock for IC752 LC74782M-9011
31	NC	O	Open	71	DISP DI	O	Data for IC7001 DISP U-COM
32	FAN STOP	I/O	O/Open (KU,J,SD), I/Fan stop detecter (other)	72	DISP DO	I	Data from IC7001 DISP U-COM
33	A RY	O	SP A relay ON/OFF	73	GND	–	GND
34	B RY	O	SP B relay ON/OFF	74	VDD	–	Power supply +5V
35	C/S RY	O	SP C/S relay ON/OFF	75	DISP RDY	I	Data request from IC7001 DISP U-COM
36	HP RY	O	Headphone relay ON/OFF	76	DISP RST	O	Reset for IC7001 DISP U-COM
37	FAN LOW	O	Open (KU,J,SD), Fan low (other)	77	DSP OL	I	DSP overload detect, A/D input
38	FAN DRIVE	O	Open (KU,J,SD), Fan drive (other)	78	WATT IN	I/O	O/Open (KU,J,SD), I/Fan wattage input, A/D input (other)
39	AC RY	O	AC relay ON/OFF	79	AMP OL	I	Amp overload detect, A/D input
40	NECK	O	Neck ON/OFF (24,26,908,938 only)	80	DC DET	I	Detection of amp power error, A/D input

7.2.2 DISPLAY

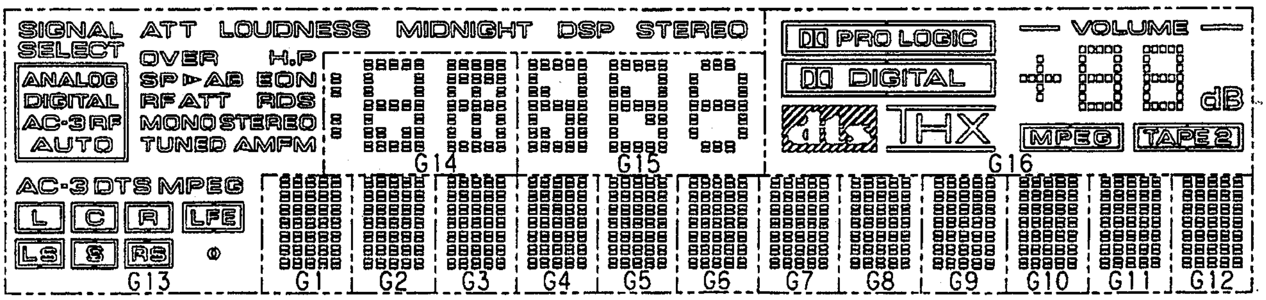
■ AAV7063 (DISPLAY ASSY :V7001)

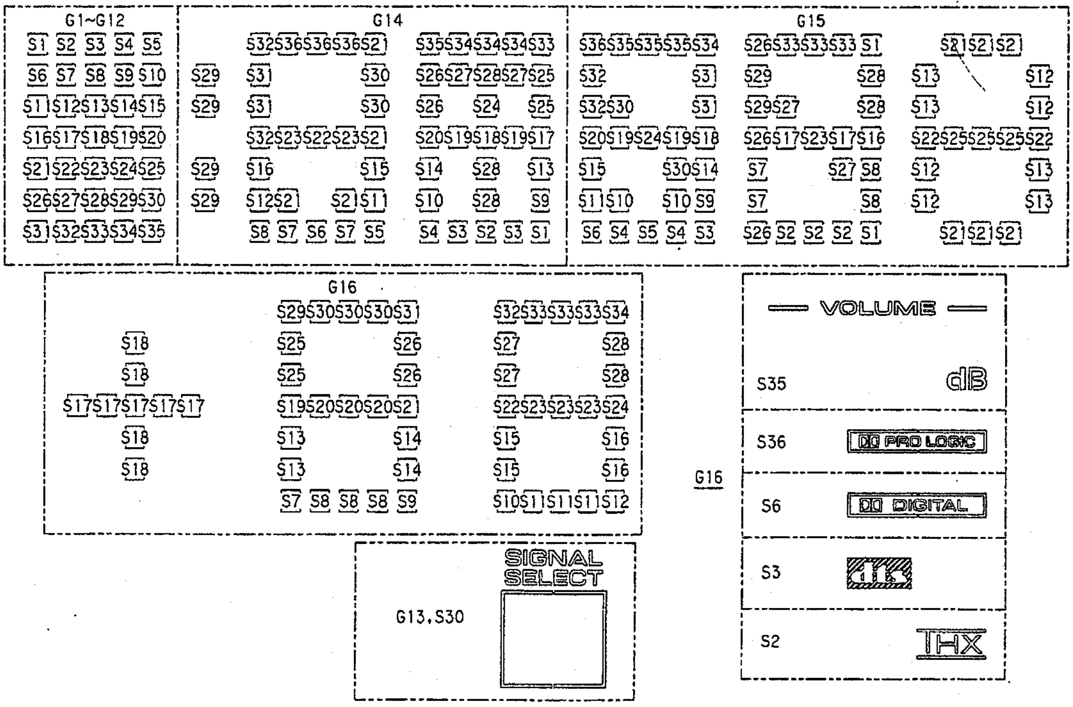
- FL Indicator Tube

● Pin Assignment


94
48
1
47
SIGNAL SELECT
ATT
LOUDNESS
MIDNIGHT
DSP
STEREO
PRO LOGIC
DIGITAL
THX
VOLUME
MPEG
TAPE 2
AC-3 DTS MPEG

● Grid Assignment


SIGNAL SELECT
ATT
LOUDNESS
MIDNIGHT
DSP
STEREO
OVER
H.P
SP ▷ AB
EON
RF ATT
RDS
MONO STEREO
TUNED AM FM
ANALOG
DIGITAL
AC-3 RF
AUTO
PRO LOGIC
DIGITAL
THX
VOLUME
dB
MPEG
TAPE 2
AC-3 DTS MPEG
L
C
R
LFE
LS
S
RS
G14
G15
G16
G13
G1
G2
G3
G4
G5
G6
G7
G8
G9
G10
G11
G12


G1~G12
G14
G15
G16
VOLUME
S35
dB
S36
PRO LOGIC
S6
DIGITAL
S3
S2
THX
SIGNAL SELECT
G13,S30

• Anode and Grid Connection

	G1~G12	G13	G14	G15	G16
S1	S1		S1	S1	
S2	S2	FM	S2	S2	S2
S3	S3	AM	S3	S3	S3
S4	S4	MPEG	S4	S4	TAPE2
S5	S5	LFE	S5	S5	MPEG
S6	S6	STEREO	S6	S6	S6
S7	S7	TUNED	S7	S7	S7
S8	S8	MONO	S8	S8	S8
S9	S9	R	S9	S9	S9
S10	S10	C	S10	S10	S10
S11	S11	L	S11	S11	S11
S12	S12	RDS	S12	S12	S12
S13	S13	DTS	S13	S13	S13
S14	S14	AC-3 (DTS)	S14	S14	S14
S15	S15	RFATT	S15	S15	S15
S16	S16	EON	S16	S16	S16
S17	S17	(▷A)B	S17	S17	S17
S18	S18	(▷)A(B)	S18	S18	S18
S19	S19	◎	S19	S19	S19
S20	S20	Ls	S20	S20	S20
S21	S21	S	S21	S21	S21
S22	S22	Rs	S22	S22	S22
S23	S23	SP▷	S23	S23	S23
S24	S24	OVER	S24	S24	S24
S25	S25	H.P	S25	S25	S25
S26	S26	AUTO	S26	S26	S26
S27	S27	AC-3RF	S27	S27	S27
S28	S28	DIGITAL	S28	S28	S28
S29	S29	ANALOG	S29	S29	S29
S30	S30	S30	S30	S30	S30
S31	S31	ATT	S31	S31	S31
S32	S32	LOUDNESS	S32	S32	S32
S33	S33	MIDNIGHT	S33	S33	S33
S34	S34	DSP	S34	S34	S34
S35	S35	(DSP) STEREO	S35	S35	S35
S36			S36	S36	S36

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Assignment	NL	NL	F1	NP	D	IC	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Pin No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Assignment	NL	NL	S36	S35	S34	S33	S32	S31	S30	S29	NL	NL	NL	S28	S27	S26	S25	S24	H	NP	F2	NL	NL

Pin No.	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
Assignment	NL	NL	NL	NP	S23	S22	S21	S20	S19	S18	S17	S16	S15	S14	S13	S12	S11	S10	S9	S8	S7	S6	S5	S4

Pin.No.	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
Assignment	S3	S2	S1	G16	G15	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	NP	NL	NL	NL

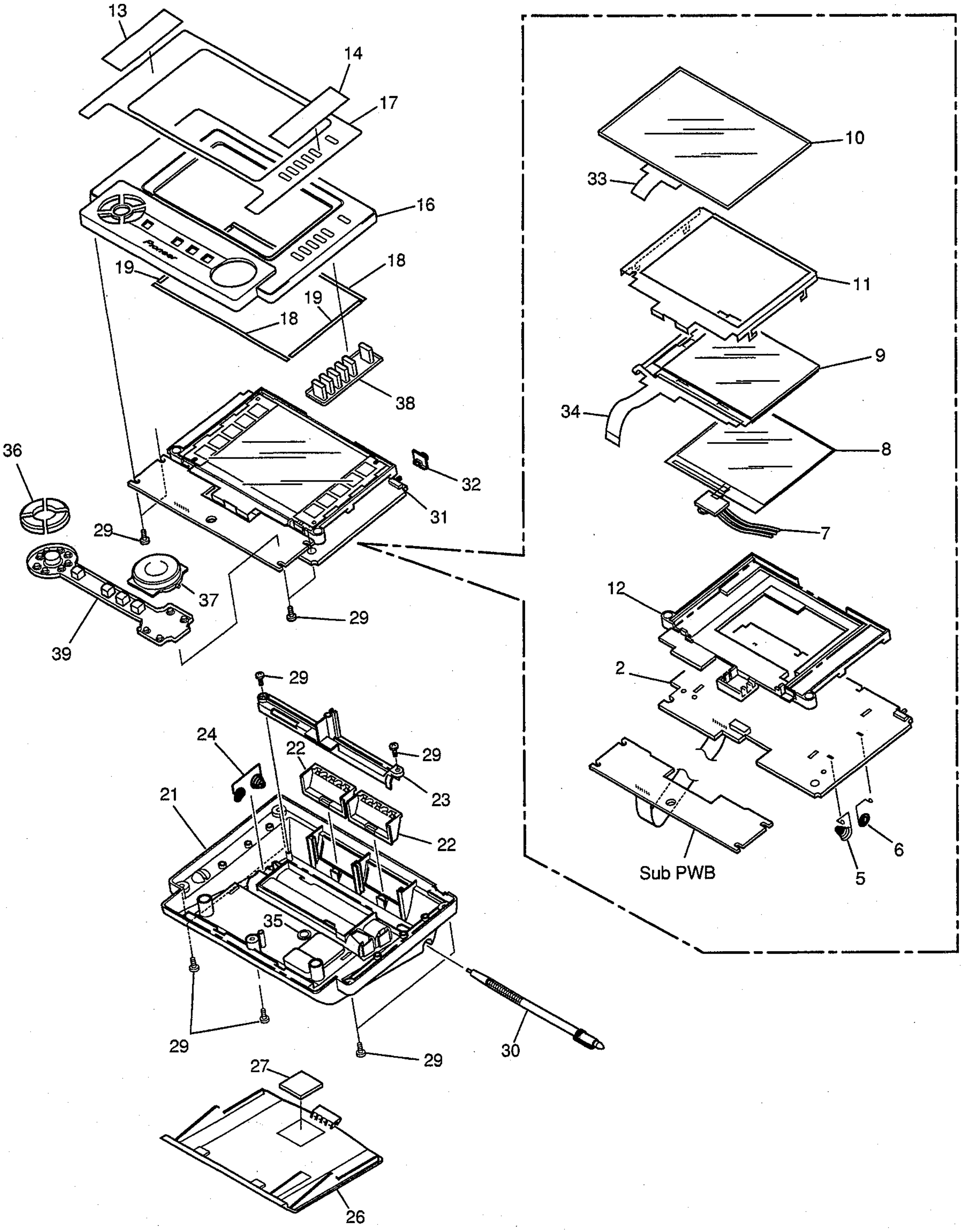
F1, F2 : Filament G1 to G16 : Grid S1 to S36 : Anode D : External connect to F1 NP: No Pin NL : Lead
H : Power supply grid usually (ec level = Apply Typ 35.0 VDC) IC : Internal connection

7.3 REMOTE CONTROL UNIT

7.3.1 AXD7254 (for VSX-39TX)

7.3.1.1 EXPLODED VIEWS AND PARTS LIST

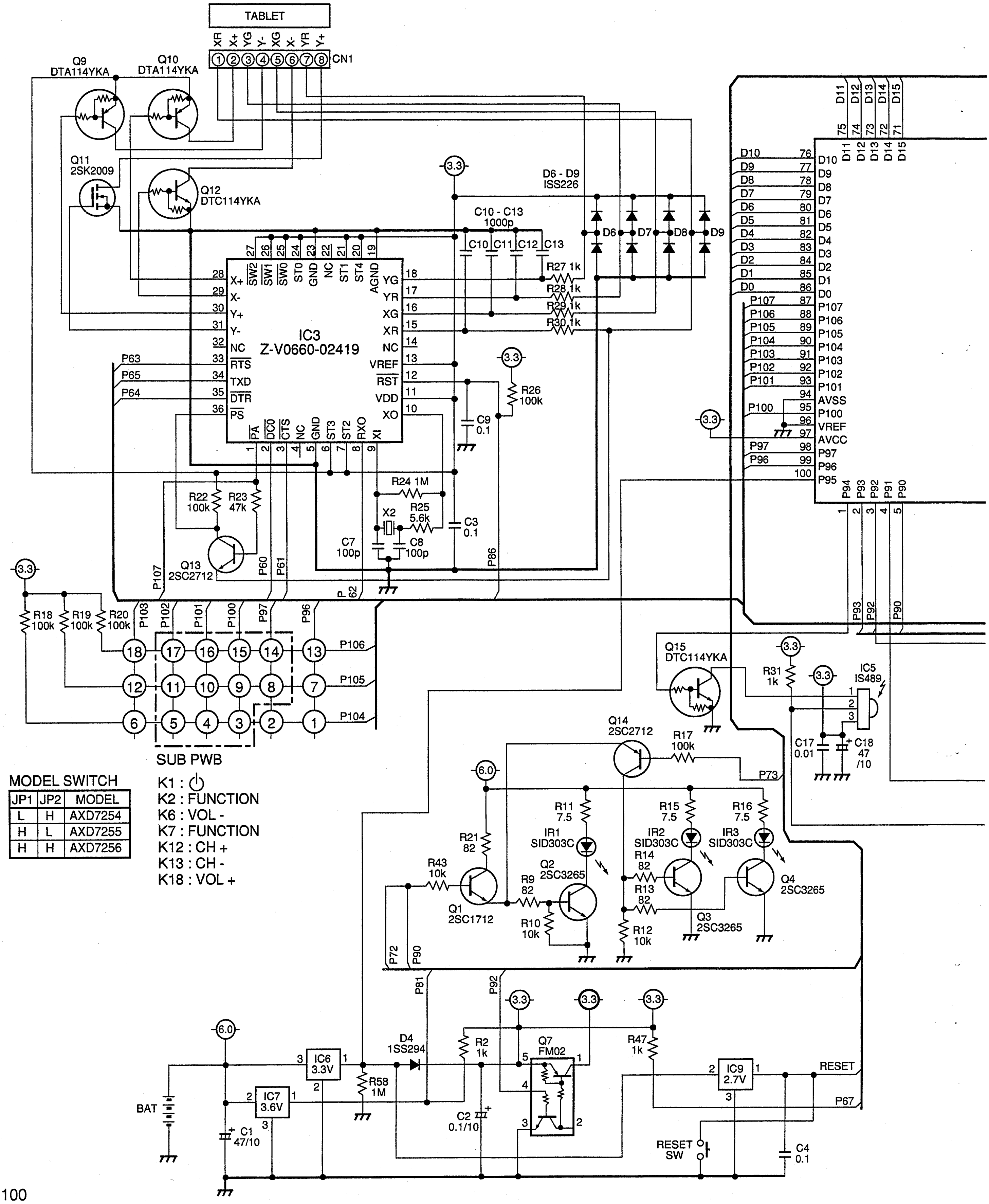
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*


13
14
17
10
33
16
18
11
19
19
18
9
38
34
36
32
8
31
7
29
37
29
12
39
2
29
24
22
29
23
21
22
6
Sub PWB
5
35
29
29
30
27
26

• PARTS LIST

Mark	No.	Description	Part No.
	1	•••••	
	2	PCB Assy	AZC7298
	3	•••••	
	4	•••••	
	5	Terminal A	411RRC15801R
	6	Terminal B	411RRC15901R
	7	Jumper Cable	E–AA1446–001
	8	EL Module	AZC7294
	9	LCD Module	AZC7295
	10	Touch Panel	NTX01005701R
	11	Frame	501RRC01901R
	12	LCD Holder	AZN7787
	13	Seal A	AZA7367
	14	Seal B	AZA7368
	15	•••••	
	16	Case A	AZN7840
	17	Name Plate	AZA7393
	18	Cushion A	701RRC04801R
	19	Cushion B	701RRC04901R
	20	•••••	
	21	Case B	AZN7784
	22	Filter	AZA7343
	23	Pen Holder	AZN7786
	24	Terminal	413RRC11201R
	25	•••••	
	26	Battery Cover	AZN7785
	27	Cushion C	701RRC03501R
	28	•••••	
	29	Screw	AZB7144
	30	Touch Pen	E–AA1445–001
	31	Slide Switch	JSB1220–0111
	32	Slide Knob	AZA7347
	33	FPC Connector	CFP5519–0101
	34	FPC Connector	E-CP0535–008
	35	MT Switch	JPM1030–0801
	36	Key Top A	AZA7345
	37	Key Top B	AZA7346
	38	Rubber Sheet A	AZA7348
	39	Rubber Sheet B	AZA7349

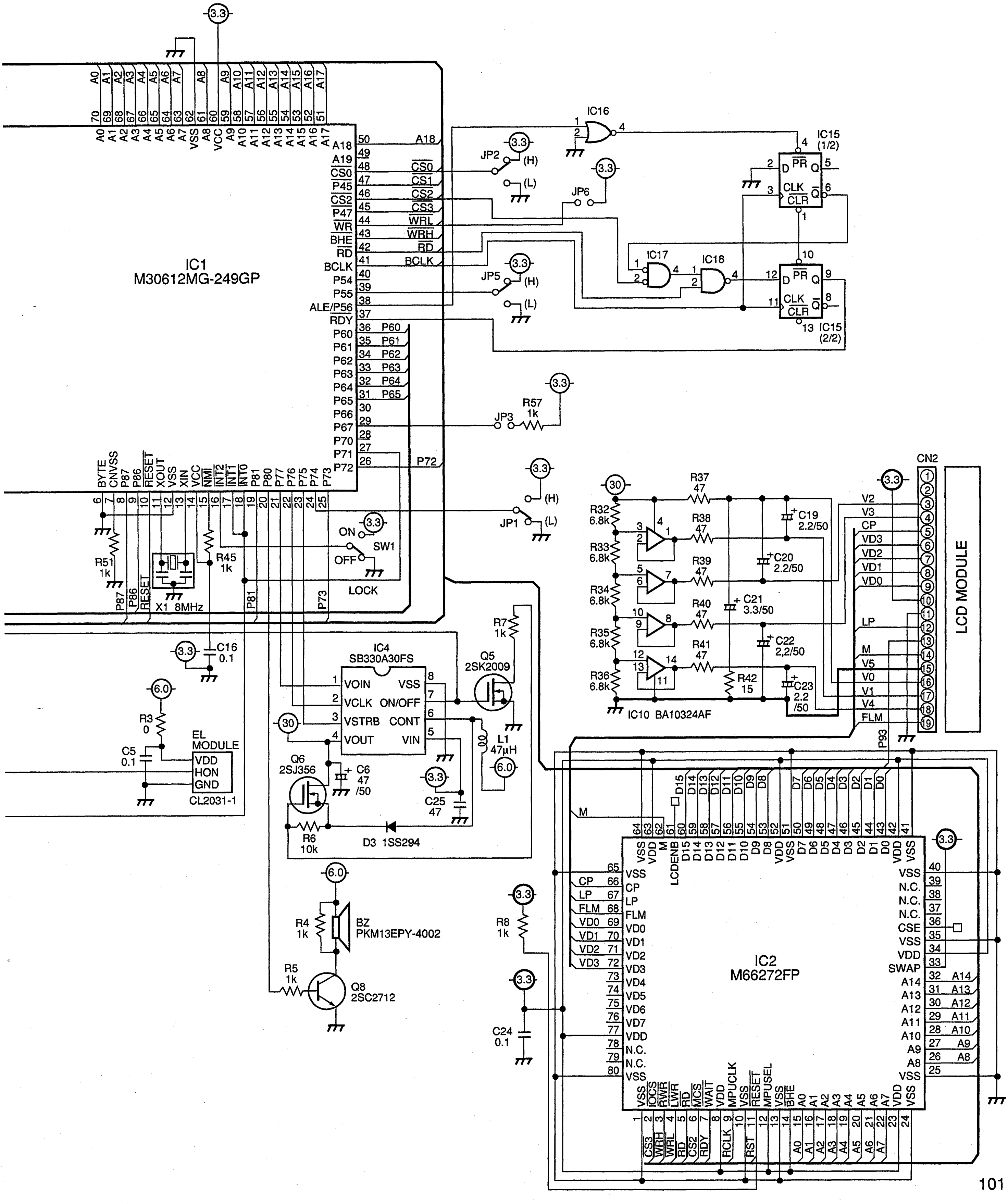
7.3.1.2 SCHEMATIC DIAGRAM


TABLET
XR X+ YG Y- XG X- YR Y+
CN1
Q9 DTA114YKA
Q10 DTA114YKA
Q11 2SK2009
Q12 DTC114YKA
IC3 Z-V0660-02419
X+ X- Y+ Y- NC RTS TXD DTR PS
SW2 SW1 SW0 ST0 GND NC ST1 ST4 AGND
YG YR XG XR NC VREF RST VDD XO
PA DC0 CTS NC GND ST3 ST2 RXO XI
P63 P65 P64
C10 - C13 1000p
C10 C11 C12 C13
D6 - D9 ISS226
D6 D7 D8 D9
R27 1k
R28 1k
R29 1k
R30 1k
R26 100k
C9 0.1
R24 1M
R25 5.6k
X2
C7 100p
C8 100p
C3 0.1
R22 100k
R23 47k
Q13 2SC2712
P107 P60 P61 P86 P62
R18 100k
R19 100k
R20 100k
P103 P102 P101 P100 P97 P96
P106 P105 P104
SUB PWB
D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
D11 D12 D13 D14 D15
P107 P106 P105 P104 P103 P102 P101
AVSS P100 VREF AVCC P97 P96 P95
P94 P93 P92 P91 P90
Q15 DTC114YKA
R31 1k
IC5 IS489
C17 0.01
C18 47 /10
Q14 2SC2712
R17 100k
P73
R11 7.5
R15 7.5
R16 7.5
IR1 SID303C
IR2 SID303C
IR3 SID303C
R21 82
R43 10k
Q1 2SC1712
R9 82
Q2 2SC3265
R10 10k
R14 82
R13 82
R12 10k
Q3 2SC3265
Q4 2SC3265
P72 P90 P81 P92
BAT
C1 47/10
IC6 3.3V
IC7 3.6V
D4 1SS294
R58 1M
R2 1k
C2 0.1/10
Q7 FM02
R47 1k
IC9 2.7V
RESET
P67
RESET SW
C4 0.1
3.3
6.0

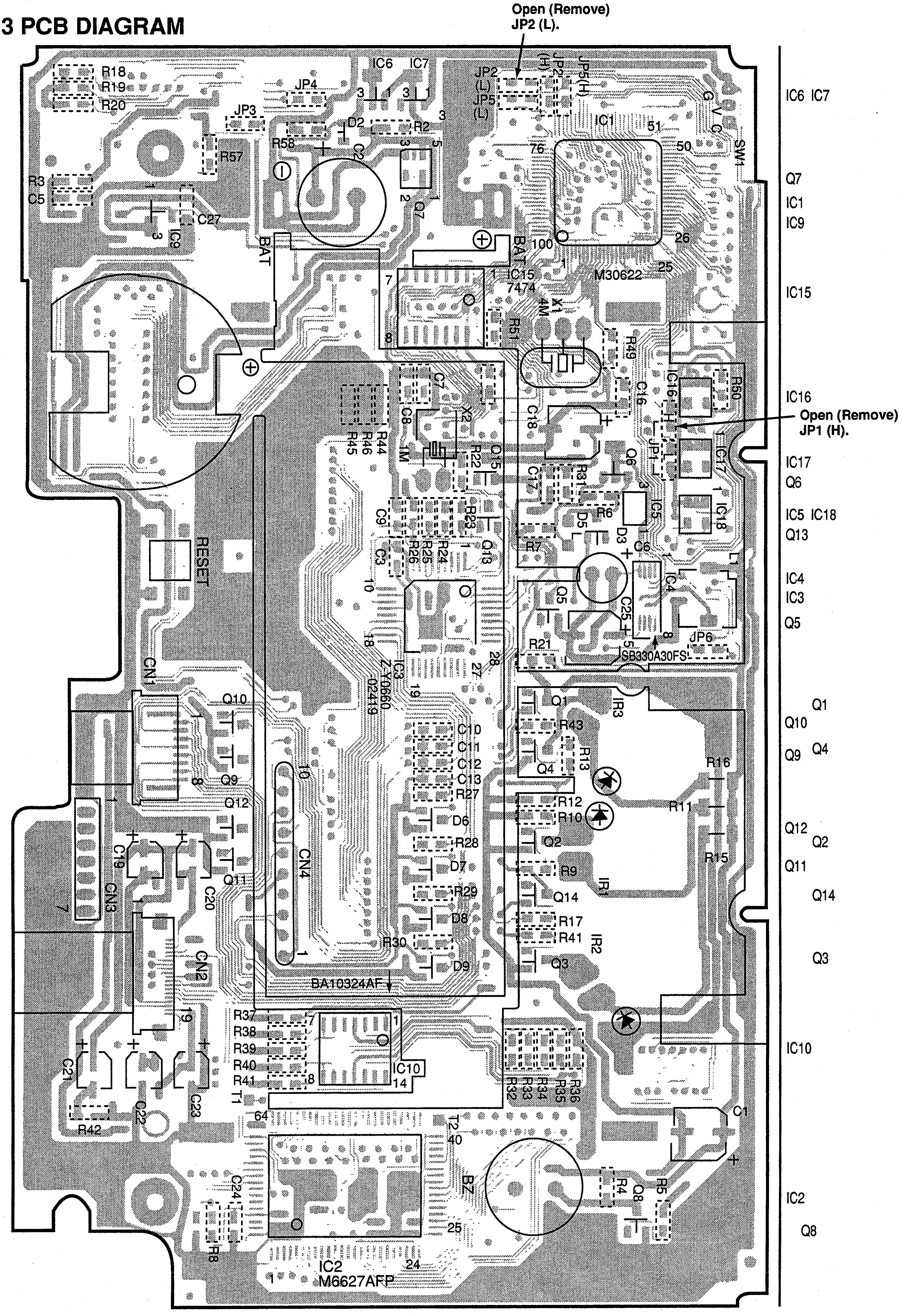
MODEL SWITCH

JP1	JP2	MODEL
L	H	AXD7254
H	L	AXD7255
H	H	AXD7256

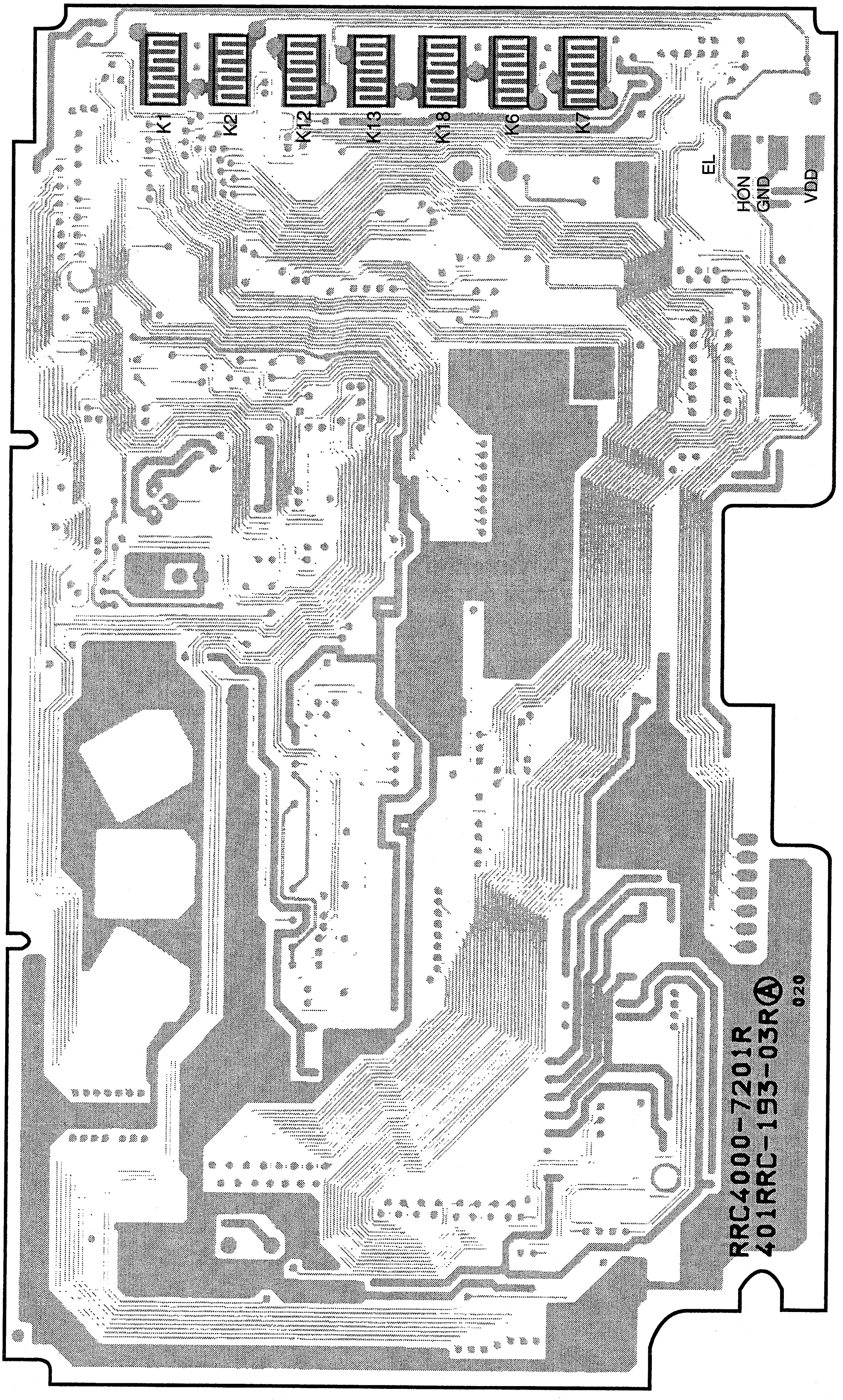
K1 : ⏻
K2 : FUNCTION
K6 : VOL -
K7 : FUNCTION
K12 : CH +
K13 : CH -
K18 : VOL +


3.3
IC1
M30612MG-249GP
A0 A1 A2 A3 A4 A5 A6 A7 VSS A8 VCC A9 A10 A11 A12 A13 A14 A15 A16 A17
A18 A19 CS0 P45 CS2 P47 WR BHE RD BCLK P54 P55 ALE/P56 RDY P60 P61 P62 P63 P64 P65 P66 P67 P70 P71 P72
BYTE CNVSS P87 P86 RESET XOUT VSS XIN VCC NMI INT2 INT1 INT0 P81 P80 P77 P76 P75 P74 P73
IC16
IC15 (1/2)
IC15 (2/2)
IC17
IC18
D PR Q CLK CLR Q
JP1 JP2 JP3 JP5 JP6
(H) (L)
R57 1k
SW1
ON OFF LOCK
R51 1k
R45 1k
X1 8MHz
C16 0.1
R3 0
C5 0.1
EL MODULE
VDD HON GND
CL2031-1
IC4
SB330A30FS
VOIN VCLK VSTRB VOUT VSS ON/OFF CONT VIN
Q5 2SK2009
R7 1k
L1 47µH
Q6 2SJ356
C6 47 /50
C25 47
R6 10k
D3 1SS294
6.0
30
BZ PKM13EPY-4002
R4 1k
R5 1k
Q8 2SC2712
R8 1k
C24 0.1
R37 47
R38 47
R39 47
R40 47
R41 47
R42 15
R32 6.8k
R33 6.8k
R34 6.8k
R35 6.8k
R36 6.8k
C19 2.2/50
C20 2.2/50
C21 3.3/50
C22 2.2/50
C23 2.2 /50
IC10 BA10324AF
CN2
V2 V3 CP VD3 VD2 VD1 VD0 LP M V5 V0 V1 V4 FLM
LCD MODULE
P93
IC2
M66272FP
D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0
VSS VDD M LCDENB
VSS CP LP FLM VD0 VD1 VD2 VD3 VD4 VD5 VD6 VD7 VDD N.C. N.C. VSS
VSS N.C. N.C. N.C. CSE VSS VDD SWAP A14 A13 A12 A11 A10 A9 A8 VSS
VSS IOCS RWR LWR RD MCS WAIT VDD MPUCLK VSS RESET MPUSEL VSS BHE A0 A1 A2 A3 A4 A5 A6 A7 VDD VSS
CS3 WRH WRL RD CS2 RDY RCLK RST

7.3.1.3 PCB DIAGRAM


Open (Remove)
JP2 (L).
R18
R19
R20
JP3
JP4
IC6
IC7
JP2 (L)
JP5 (L)
JP2 (H)
JP5 (H)
R57
R58
D2
R2
C2
Q7
IC1
51
50
76
G V C
SW1
R3
C5
C27
IC9
BAT
BAT
100
26
25
IC15
7474
M30622
X1
4M
R51
R49
C16
IC16
R50
RESET
C7
C8
R44
R46
R45
X2
1M
R22
Q15
C18
C17
R31
Q6
JP1
IC17
Open (Remove)
JP1 (H).
C9
R23
R25
R24
R26
C3
Q13
R6
IC5
D5
D3
C6
IC18
R7
L1
IC4
Q5
C25
R21
JP6
SB330A30FS
IC3
Z-Y0660
02419
CN1
Q10
Q9
Q12
Q11
C19
C20
CN3
CN2
CN4
C10
C11
C12
C13
R27
D6
R28
D7
R29
D8
R30
D9
BA10324AF
Q1
IR3
R43
R13
Q4
R16
R12
R10
R11
Q2
R15
R9
IR1
Q14
R17
R41
IR2
Q3
R37
R38
R39
R40
R41
T1
IC10
R32
R33
R34
R35
R36
C21
C22
C23
R42
C24
R8
T2
BZ
C1
R4
Q8
R5
IC2
M6627AFP
IC6 IC7
Q7
IC1
IC9
IC15
IC16
IC17
Q6
IC5 IC18
Q13
IC4
IC3
Q5
Q1
Q10
Q9 Q4
Q12 Q2
Q11
Q14
Q3
IC10
IC2
Q8

SIDE A

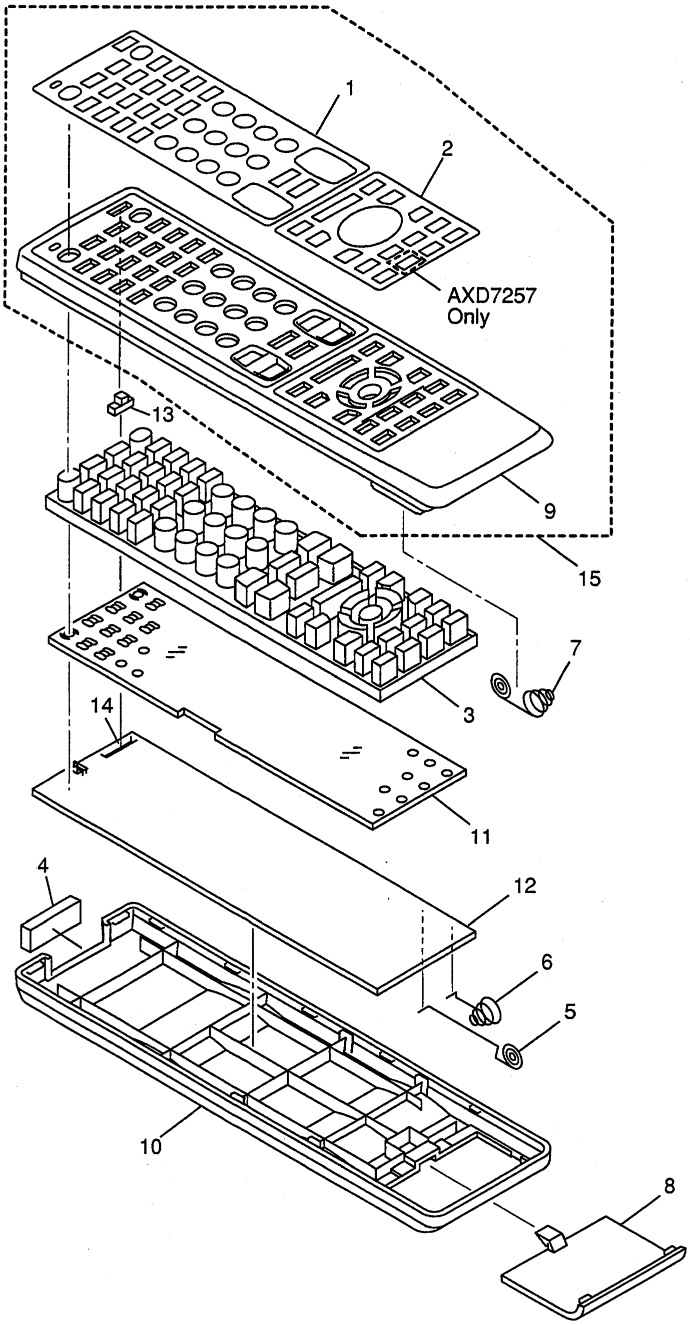

K1
K2
K12
K13
K18
K6
K7
EL
HON
GND
VDD
RRC4000-7201R
401RRC-193-03RⒶ
020
A
B
C
D

SIDE B

7.3.2 AXD7257 (Remote Control 37) and AXD7278 (Remote Control 909S)

7.3.2.1 EXPLODED VIEWS AND PARTS LIST

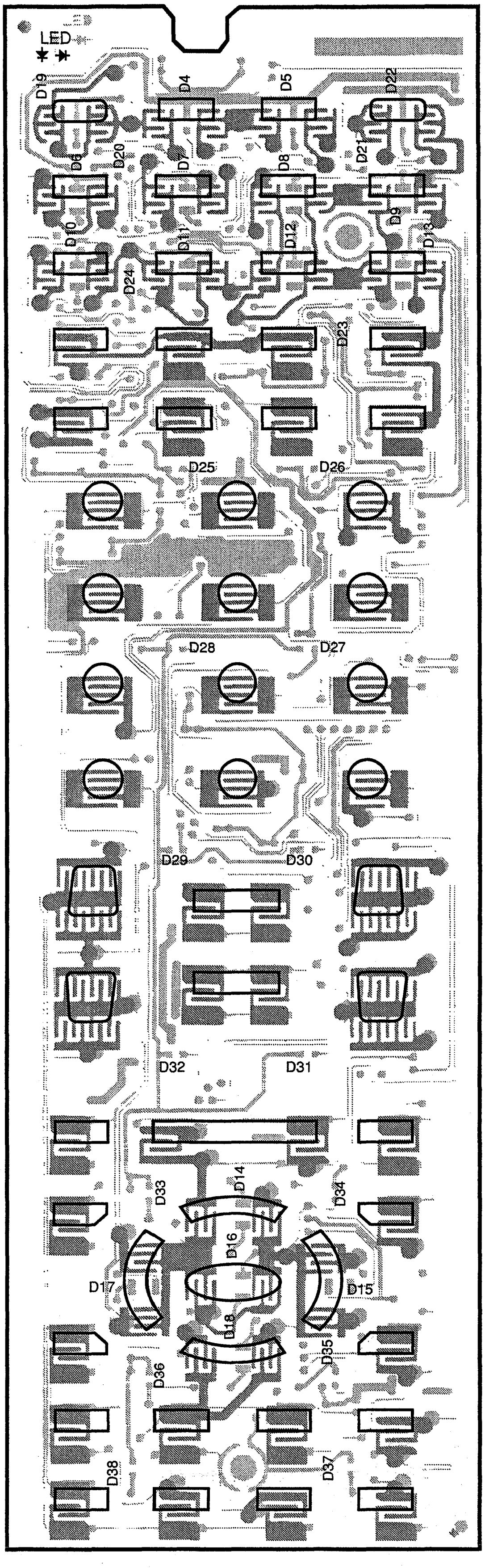
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*



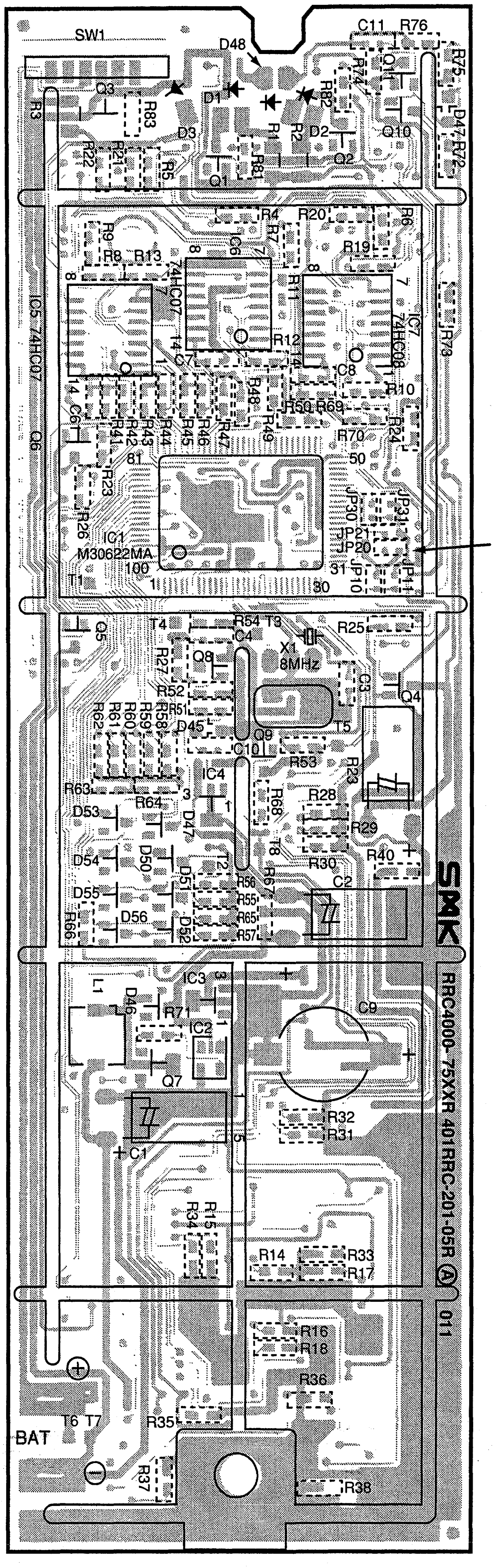
● PARTS LIST

Mark	No.	Description	Part No.
	1	Name Plate A	AZA7380
	2	Name Plate B (AXD7257)	AZA7381
	2	Name Plate B (AXD7278)	AZA7386
	3	Rubber Sheet (AXD7257)	AZA7382
	3	Rubber Sheet (AXD7278)	AZA7387
	4	Filter	AZA7340
	5	Terminal A (+)	AZB7141
	6	Terminal B (-)	AZB7142
	7	Spring	AZB7143
	8	Battery Cover	AZN7841
	9	Case (A)	AZN7832
	10	Case (B)	AZN7781
NSP	11	Illumi Plate	AZN7782
	12	PCB	AZW7260
	13	Knob	AZA7398
	14	Slide Switch	AZS7036
	15	Case A assy : 7257	AZN7846
	15	Case A assy : 7278	AZN7847

7.3.2.2 PCB DIAGRAM


LED
D19
D4
D5
D22
D6
D20
D7
D8
D21
D9
D10
D11
D12
D13
D24
D23
D25
D26
D28
D27
D29
D30
D32
D31
D33
D14
D34
D16
D17
D15
D18
D36
D35
D38
D37

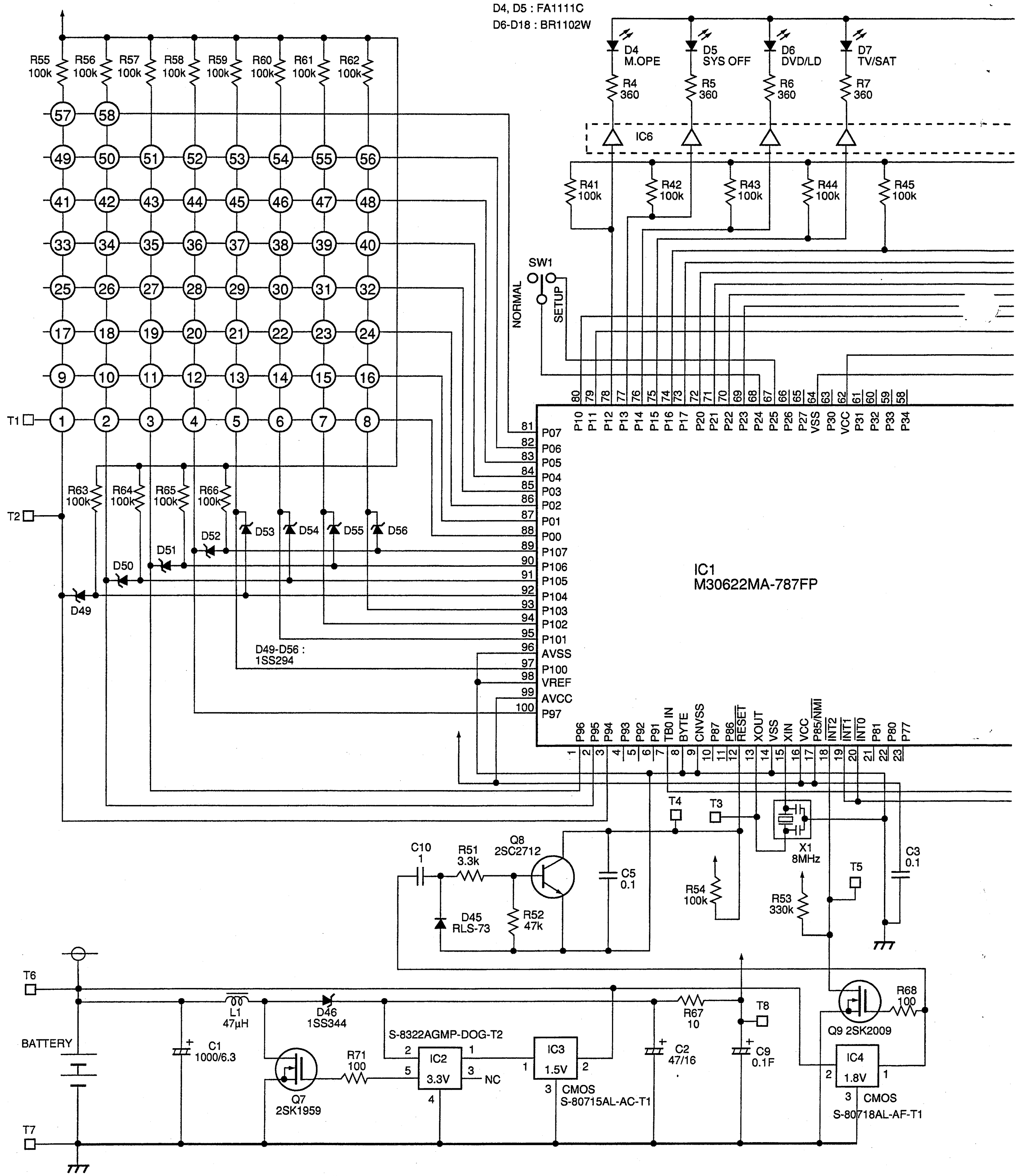
SIDE A

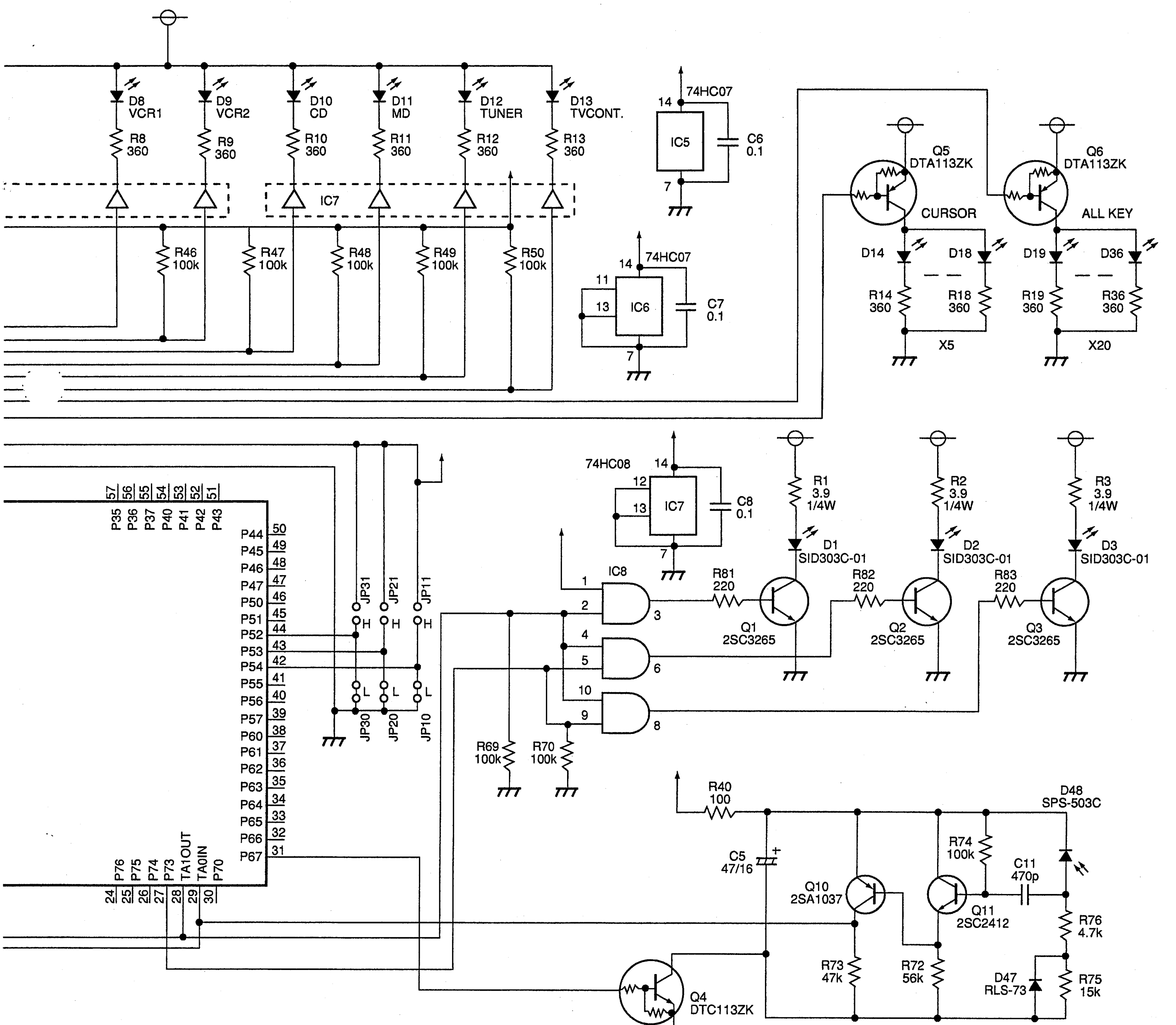

SW1
D48
C11
R76
R75
R74
Q11
R82
D47
R72
Q3
R83
D1
R1
R2
D2
Q10
R3
R22
R21
R5
D3
Q1
R81
Q2
R4
R20
R6
R9
IC6
R7
R19
R8
R13
R11
IC5 74HC07
74HC07
IC7 74HC08
R73
R12
C7
C8
R10
C6
R48
R50
R69
R41
R42
R43
R44
R45
R46
R47
R49
R70
R24
Q6
R23
R26
IC1
M30622MA
JP30
JP31
JP21
JP20
JP10
JP11
T1
T4
R54
T3
R25
Q5
C4
Q8
X1
8MHz
C3
Q4
R27
R52
R51
R53
R59
R58
R60
R61
R62
D45
Q9
T5
C10
R53
R23
R63
IC4
R64
R68
R28
R29
D53
D47
T8
D54
D50
T2
R56
R55
R30
R40
R67
C2
D55
D51
R65
R57
R66
D56
D52
SMK
RRC4000-75XXR 401RRC-201-05R Ⓐ
011
L1
D46
IC3
R71
C9
IC2
Q7
R32
R31
C1
R15
R34
R14
R33
R17
R16
R18
R36
T6 T7
R35
BAT
R37
R38

SIDE B

Open (Remove)
JP11, 21, 31.

7.3.2.3 SCHEMATIC DIAGRAM


D4, D5 : FA1111C
D6-D18 : BR1102W
D4 M.OPE
D5 SYS OFF
D6 DVD/LD
D7 TV/SAT
R4 360
R5 360
R6 360
R7 360
IC6
R41 100k
R42 100k
R43 100k
R44 100k
R45 100k
R55 100k
R56 100k
R57 100k
R58 100k
R59 100k
R60 100k
R61 100k
R62 100k
57 58
49 50 51 52 53 54 55 56
41 42 43 44 45 46 47 48
33 34 35 36 37 38 39 40
25 26 27 28 29 30 31 32
17 18 19 20 21 22 23 24
9 10 11 12 13 14 15 16
1 2 3 4 5 6 7 8
T1
T2
SW1
NORMAL
SETUP
R63 100k
R64 100k
R65 100k
R66 100k
D49
D50
D51
D52
D53
D54
D55
D56
D49-D56 : 1SS294
IC1
M30622MA-787FP
81 P07
82 P06
83 P05
84 P04
85 P03
86 P02
87 P01
88 P00
89 P107
90 P106
91 P105
92 P104
93 P103
94 P102
95 P101
96 AVSS
97 P100
98 VREF
99 AVCC
100 P97
80 P10
79 P11
78 P12
77 P13
76 P14
75 P15
74 P16
73 P17
72 P20
71 P21
70 P22
69 P23
68 P24
67 P25
66 P26
65 P27
64 VSS
63 P30
62 VCC
61 P31
60 P32
59 P33
58 P34
1 P96
2 P95
3 P94
4 P93
5 P92
6 P91
7 TB0 IN
8 BYTE
9 CNVSS
10 P87
11 P86
12 RESET
13 XOUT
14 VSS
15 XIN
16 VCC
17 P85/NMI
18 INT2
19 INT1
20 INT0
21 P81
22 P80
23 P77
T4
T3
T5
X1 8MHz
C3 0.1
C10 1
R51 3.3k
Q8 2SC2712
C5 0.1
D45 RLS-73
R52 47k
R54 100k
R53 330k
T6
T7
BATTERY
C1 1000/6.3
L1 47µH
D46 1SS344
Q7 2SK1959
R71 100
S-8322AGMP-DOG-T2
IC2 3.3V
NC
IC3 1.5V
CMOS S-80715AL-AC-T1
R67 10
C2 47/16
C9 0.1F
T8
R68 100
Q9 2SK2009
IC4 1.8V
CMOS S-80718AL-AF-T1


D8
VCR1
D9
VCR2
D10
CD
D11
MD
D12
TUNER
D13
TVCONT.
R8
360
R9
360
R10
360
R11
360
R12
360
R13
360
IC7
R46
100k
R47
100k
R48
100k
R49
100k
R50
100k
74HC07
14
IC5
C6
0.1
7
74HC07
14
11
13
IC6
C7
0.1
7
Q5
DTA113ZK
CURSOR
Q6
DTA113ZK
ALL KEY
D14
D18
D19
D36
R14
360
R18
360
R19
360
R36
360
X5
X20
74HC08
14
12
13
IC7
C8
0.1
7
R1
3.9
1/4W
R2
3.9
1/4W
R3
3.9
1/4W
D1
SID303C-01
D2
SID303C-01
D3
SID303C-01
IC8
1
2
3
4
5
6
10
9
8
R81
220
R82
220
R83
220
Q1
2SC3265
Q2
2SC3265
Q3
2SC3265
57 56 55 54 53 52 51
P35 P36 P37 P40 P41 P42 P43
P44 50
P45 49
P46 48
P47 47
P50 46
P51 45
P52 44
P53 43
P54 42
P55 41
P56 40
P57 39
P60 38
P61 37
P62 36
P63 35
P64 34
P65 33
P66 32
P67 31
P76 P75 P74 P73 TA1OUT TA0IN P70
24 25 26 27 28 29 30
JP31
JP21
JP11
H
H
H
L
L
L
JP30
JP20
JP10
R69
100k
R70
100k
R40
100
D48
SPS-503C
C5
47/16
R74
100k
C11
470p
Q10
2SA1037
Q11
2SC2412
R76
4.7k
R73
47k
R72
56k
D47
RLS-73
R75
15k
Q4
DTC113ZK

MODEL SWITCH

Model	JP10	JP11	JP20	JP21	JP30	JP31
AXD7257, AXD7278	–	○	–	○	–	○
AXD7258, AXD7279	–	○	–	○	○	–
AXD7259	–	○	○	–	–	○
AXD7266	–	○	○	–	○	–
AXD7273	○	–	–	○	–	○
AXD7275	○	–	–	○	○	–

7.3.2.4 PCB PARTS LIST

NOTES: ●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

$560\,\Omega \rightarrow 56 \times 10^1 \rightarrow 561$ .... RD1/4PU $\boxed{5}\boxed{6}\boxed{1}$ J
$47k\,\Omega \rightarrow 47 \times 10^3 \rightarrow 473$ .... RD1/4PU $\boxed{4}\boxed{7}\boxed{3}$ J
$0.5\,\Omega \rightarrow$ R50 .... RN2H $\boxed{R}\boxed{5}\boxed{0}$ K
$1\,\Omega \rightarrow$ 1R0 .... RS1P $\boxed{1}\boxed{R}\boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

$5.62k\,\Omega \rightarrow 562 \times 10^1 \rightarrow 5621$ .... RN1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

Mark	No.	Description	Part No.
	IC1		M30622MA-787FP
	IC2		S-8322AGMP-DOG-T2
	IC3		S-80715AL-AC-T1
	IC4		S-80718AL-AF-T1
	IC5,IC6		74HC07
	IC7		74HC08
	Q1-Q3		2SC3265
	Q4		DTC113ZK
	Q5,Q6		DTA113ZK
	Q7		2SK1959
	Q8		2SC2712
	Q9		2SK2009
	Q10		2SA1037
	Q11		2SC2412
	D1-D3		SID303C-01
	D6-D18		BR1102W
	D23-D36		CL190TD-CD
	D45,D47		RLS-73
	D46		1SS344
	D48		SPS-503C
	D49-D56		1SS294

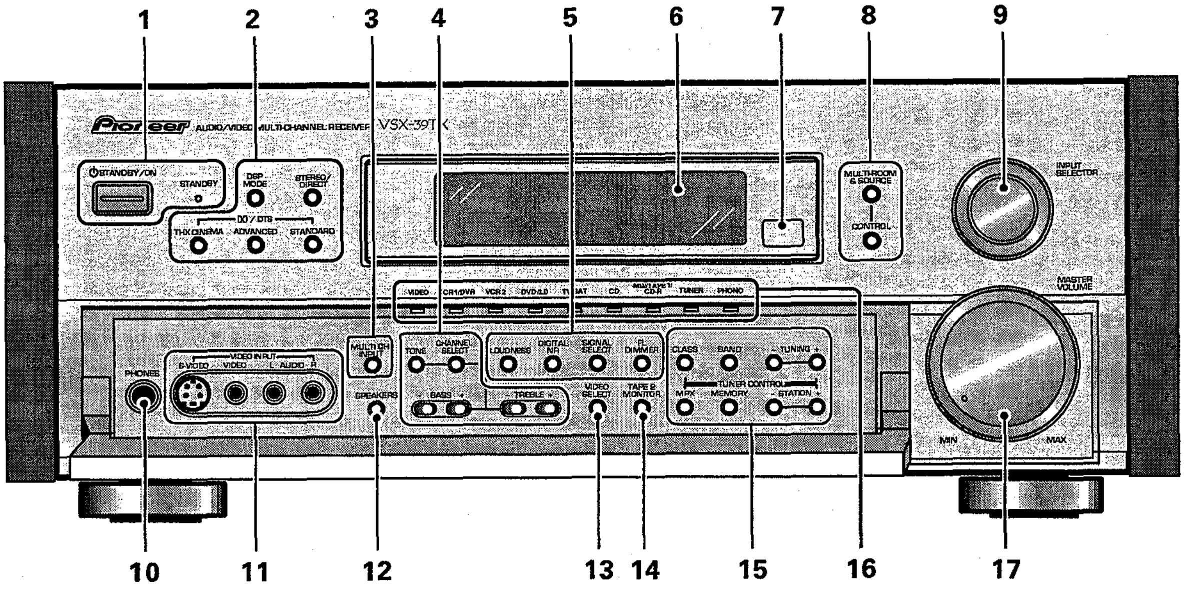
8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

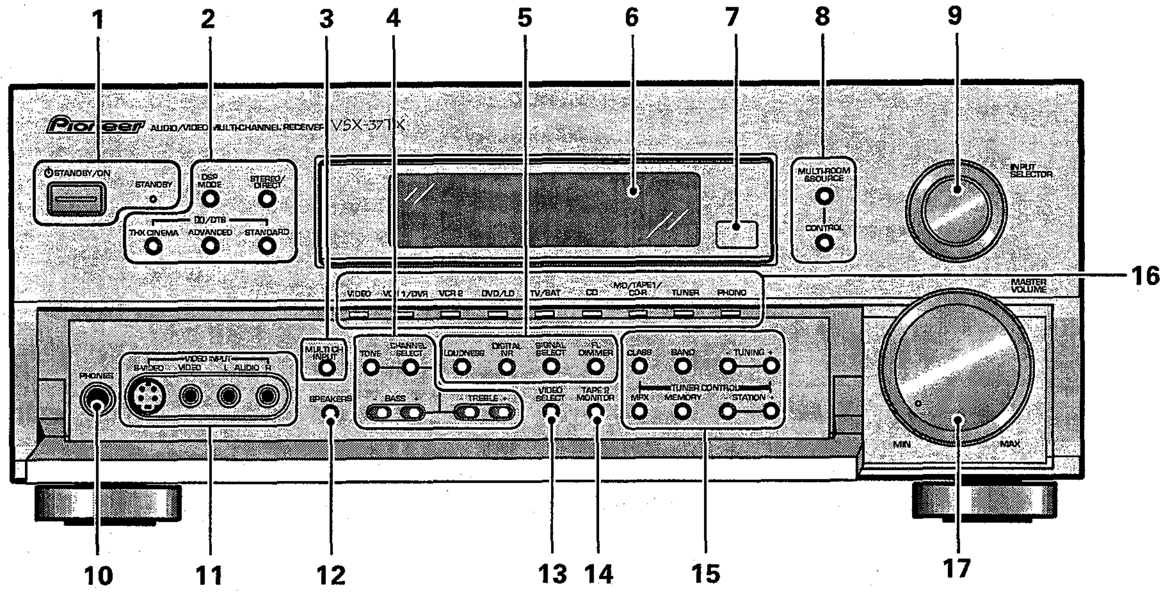
■ Front Section (VSX-39TX,VSX-37TX,VSX-36TX)

All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel.

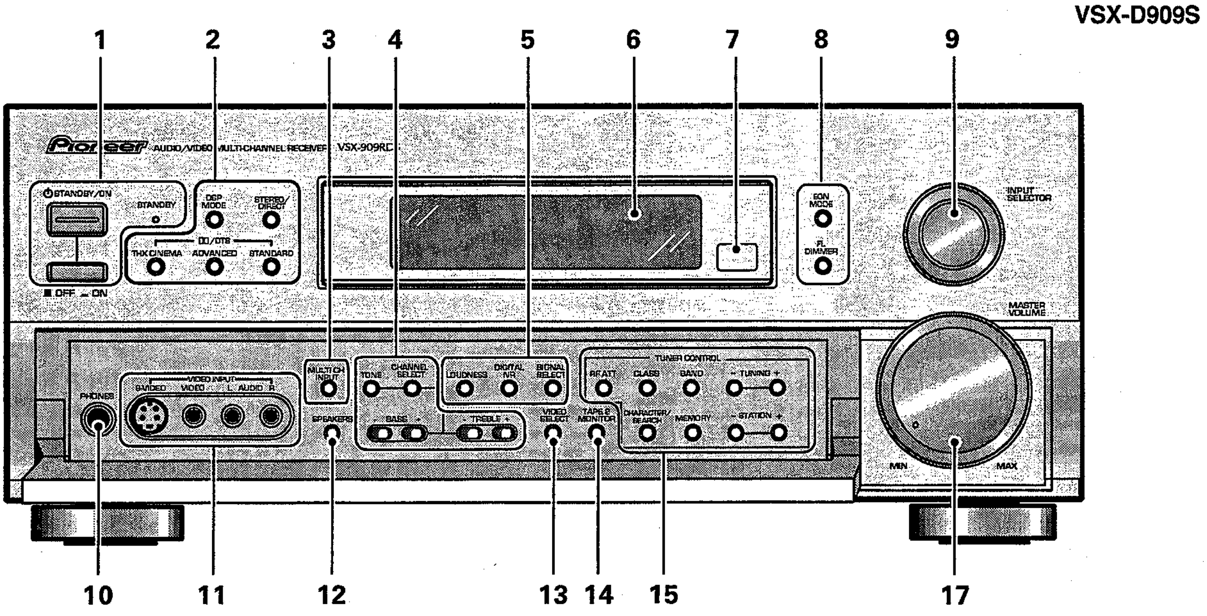
VSX-39TX


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Pioneer
AUDIO/VIDEO MULTI-CHANNEL RECEIVER
VSX-39TX
STANDBY/ON
STANDBY
DSP MODE
STEREO/DIRECT
DD/DTS
THX CINEMA
ADVANCED
STANDARD
MULTI-ROOM & SOURCE
CONTROL
INPUT SELECTOR
MASTER VOLUME
VIDEO
CR1/DVR
VCR2
DVD/LD
TV/SAT
CD
MD/TAPE1/CD-R
TUNER
PHONO
PHONES
VIDEO INPUT
S-VIDEO
VIDEO
L
AUDIO
R
MULTI CH INPUT
SPEAKERS
TONE
CHANNEL SELECT
BASS
TREBLE
LOUDNESS
DIGITAL NR
SIGNAL SELECT
FL DIMMER
VIDEO SELECT
TAPE 2 MONITOR
CLASS
BAND
TUNING
TUNER CONTROL
MPX
MEMORY
STATION
MIN
MAX

VSX-37TX
VSX-36TX


1
2
3
4
5
6
7
8
9
16
10
11
12
13
14
15
17
Pioneer
AUDIO/VIDEO MULTI-CHANNEL RECEIVER
VSX-37TX
STANDBY/ON
STANDBY
DSP MODE
STEREO/DIRECT
DD/DTS
THX CINEMA
ADVANCED
STANDARD
MULTI-ROOM & SOURCE
CONTROL
INPUT SELECTOR
MASTER VOLUME
VIDEO
VCR1/DVR
VCR2
DVD/LD
TV/SAT
CD
MD/TAPE1/CD-R
TUNER
PHONO
PHONES
VIDEO INPUT
S-VIDEO
VIDEO
L
AUDIO
R
MULTI CH INPUT
SPEAKERS
TONE
CHANNEL SELECT
BASS
TREBLE
LOUDNESS
DIGITAL NR
SIGNAL SELECT
FL DIMMER
VIDEO SELECT
TAPE 2 MONITOR
CLASS
BAND
TUNING
TUNER CONTROL
MPX
MEMORY
STATION
MIN
MAX

■ Front Section (VSX-D909S)


VSX-D909S
1
2
3
4
5
6
7
8
9
STANDBY/ON
STANDBY
DSP MODE
STEREO/DIRECT
THX CINEMA
ADVANCED
STANDARD
OFF ON
FL DIMMER
INPUT SELECTOR
MASTER VOLUME
MULTI CH INPUT
TONE
CHANNEL SELECT
LOUDNESS
DIGITAL NR
SIGNAL SELECT
TUNER CONTROL
CLASS
BAND
TUNING
PHONES
VIDEO INPUT
S-VIDEO
VIDEO
L AUDIO R
SPEAKERS
BASS
TREBLE
VIDEO SELECT
TAPE 2 MONITOR
CHARACTER/SEARCH
MEMORY
STATION
MIN
MAX
10
11
12
13
14
15
17

1 **⏻ STANDBY/ON button**
Press to switch the receiver ON or into STANDBY mode.

STANDBY indicator
Lights when the receiver is in STANDBY mode. (Please note that this receiver consumes a small amount of power [1.0 W] in the standby mode.)

2 **DSP MODE button**
Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2, 5/7 CH STEREO). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments.

STEREO/DIRECT button
Switches the receiver into STEREO mode if it was in a different sound mode (like DSP mode) or toggles between DIRECT and STEREO mode. For more on STEREO mode .

DIRECT playback bypasses the tone controls, DIGITAL NR, LOUDNESS, MIDNIGHT and channel level for the most accurate reproduction of a program source.

DD / DTS buttons
THX CINEMA – Cycles through the THX CINEMA, THX SURROUND EX or THX AUTO sound modes. If you have THX-certified speaker setup or want to re-create a THX-style sound environment. It is also appropriate for Dolby Digital, Dolby Pro Logic, DTS sources. Those with surround back speakers can use all three THX modes, those without can only use the THX CINEMA mode.

ADVANCED – Use to select one of the four Advanced Theater modes. Use to create certain types of sound environments when listening to Dolby Digital, Dolby Pro Logic, DTS sources.

STANDARD – Use for pure decoding of multi channel sources, especially Dolby Digital, Dolby Pro Logic, DTS sources. Each press toggles between STANDARD and STANDARD 7.1 mode (for use with SURROUND BACK speakers) and STANDARD auto (the receiver chooses the appropriate STANDARD mode). Those with surround back speakers can use all three STANDARD modes, those without can only use the STANDARD mode.

3 **MULTI CH INPUT**
Use to hook up an external component that can decode other types of signals and input them into the VSX-39TX.

4 **TONE control buttons**

TONE button
This button has two functions. Firstly, it switches between TONE ON and TONE BYPASS, which bypasses the tone circuitry. Secondly, you need to press the button before using the CHANNEL SELECT buttons to adjust the BASS & TREBLE (cannot be used in THX or MULTI CH IN modes).

CHANNEL SELECT button
Switches the tone adjust controls between the FRONT, CENTER, SURROUND and SURROUND BACK speakers. You can then use the BASS and TREBLE controls to adjust the sound.

BASS (–/+) button
Use to adjust low frequencies.

TREBLE (–/+) button
Use to adjust the high frequencies.

5 **LOUDNESS button**
Switches the LOUDNESS mode on or off (cannot be used in THX or MULTI CH IN modes).

DIGITAL NR button
Switches the DIGITAL NR on or off (cannot be used in THX or MULTI CH IN modes).

SIGNAL SELECT button
Use to select the type of signal being input into the receiver. Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – To select an analog signal.

DIGITAL – To select a optical or coaxial digital signal.

AC-3 RF – To select an DD RF signal.

AUTO – This is the default. If there are analog, digital and DD RF signals input, the receiver automatically selects the DD RF signal. If there are analog and digital signals input the digital will be selected.

FL DIMMER button
Use to adjust the brightness of the main display.

6 **Display**

7 **Remote sensor**
Point the remote control toward the remote sensor to operate the receiver .

8 **MULTI-ROOM & SOURCE button**
Press to use the multi room feature (requires an optional PIONEER Multi-Room Remote Sensor Unit MR-100 or another IR receiver).

CONTROL button : Used together with the INPUT SELECTOR to select the function or use with the MASTER VOLUME to select the volume of the MULTI ROOM system.

9 **INPUT SELECTOR dial**
Turn to select a source component. (You can also use to select a function in the MULTI-ROOM & SOURCE mode). The source indicators show the current component:

DVD/LD – DVD player or Laser Disc player.

TV/SAT– TV or satellite tuner.

CD – Compact Disc player.

MD/TAPE1/CD-R – Tape deck, Mini Disc recorder or CD recorder connected to MD/TAPE 1/CD-R inputs/outputs.

TUNER – The receiver's built-in tuner.
PHONO – Turntable.

VIDEO – Video camera (etc.) connected to the VIDEO INPUT on the front panel.
VCR1/DVR – Video cassette recorder connected to VCR1/DVR inputs.
VCR 2 – Video cassette recorder or other component connected to VCR 2 inputs.

10 **PHONES jack**
Connect headphones for private listening (no sound will be heard through the speakers)

11 **VIDEO INPUT jacks**
S-VIDEO : Video input for connecting a video camera (etc.), that has an S-Video out.

VIDEO / AUDIO (L/R) : Video input for connecting a video camera, etc. that has standard video/audio outputs.

12 **SPEAKERS (A/B) button**
Use to select the speaker system. A is the primary setting. It plays all speakers hooked up to the A system. A & B setting only plays the front speakers of both the A & B systems and the subwoofer. Multi channel sources will be down-mixed to these Speakers so no sound will be lost. B setting only plays the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers. The button cycles through the speaker systems as follows: A⇨B⇨A&B⇨off.

13 **VIDEO SELECT button**
Switches the receiver between the various types of video input.

14 **TAPE 2 MONITOR button**
Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/outputs. Allows monitoring of a recording as it's being made.

15 **TUNER CONTROL buttons**
CLASS – Press repeatedly to switch the preset station classes.

BAND – Press to select the AM or FM band.

TUNING –/+ – Use to manually tune to radio stations.

MPX – Press to switch between auto stereo and MONO reception of FM broadcasts. When the broadcast signal is weak, selecting MONO will improve the sound quality.

MEMORY – Press to start the memorization of a preset station.

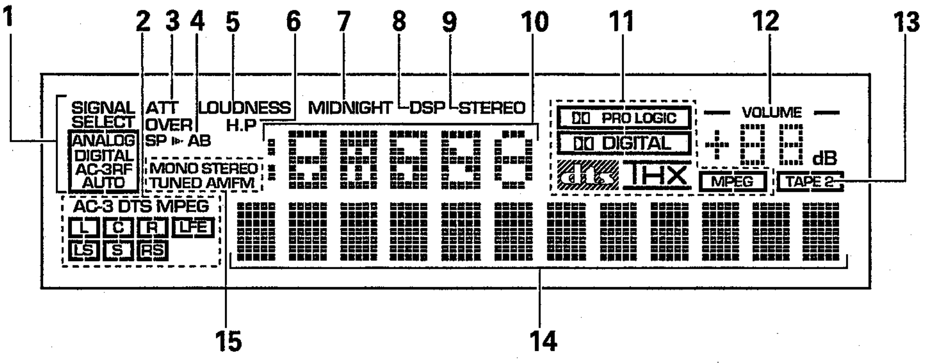
STATION –/+ – Use to choose programmed radio stations.

16 **Source indicators**
Shows the source currently selected.

17 **MASTER VOLUME**
Adjusts the overall receiver volume.

■ Display

All the display information is explained and /or referenced here.



1 SIGNAL SELECT indicators

Light to indicate the input signal you selected.

ANALOG : Lights when analog signals are assigned.
DIGITAL : Lights when digital audio signals are selected.
AC-3 RF : Lights when AC-3 RF signals are assigned.
AUTO : Lights when the receiver is set to select the input signal automatically.

2 Program Format indicators

AC-3 : Lights when a source with Dolby Digital signals is played.
DTS : Lights when a source with DTS audio signals is played.

For Dolby Digital or DTS sources : These indicators change according to which channels are active in the source. When all three LS (left surround), S (surround) and RS (right surround) light at the same time it means a source with Surround EX or DTS-ES flag is being used.

L – Left front channel.
C – Center channel.
R – Right front channel.
LS – Left surround channel.
S – Surround channel (mono).
RS – Right surround channel.
LFE – Low Frequency Effects channel.

3 Analog level indicators

OVER – When the source signal is analog, this lights if the signal is in danger of distorting. Press INPUT ATT on the front panel to lower the signal level.

ATT – Lights when INPUT ATT is used to reduce the level of the analog source signal.

4 Speaker indicators

Light to indicate the current speaker system, A and/or B.

5 LOUDNESS indicator

Lights when the LOUDNESS mode is on.

6 H.P (headphones)

Lights when headphones are connected to the PHONES jack (speakers systems A and B both turn off automatically).

7 MIDNIGHT indicator

Lights when the MIDNIGHT LISTENING mode is on.

8 DSP indicator

Light when a DSP or Advanced Theater modes are selected.

9 STEREO indicator

Lights when a STEREO modes are selected.

10 Radio Frequency/Function indicator

Displays the function or the frequency of the current radio station.

11 DD / dts mode indicators

DD DIGITAL : When the DD /dts mode on the receiver is on, this indicator lights to indicate playback of a Dolby Digital signal. However, DD PRO LOGIC lights during 2 channel playback of Dolby Digital.
DD PRO LOGIC : When the DD/dts mode on the receiver is on, this indicator lights during 2 channel playback.
DTS : When the DD/dts mode on the receiver is on, this indicator lights to indicate playback of a DTS signal.
THX: Lights when the HOME THX CINEMA mode is selected.

12 MASTER VOLUME indication

Displays current volume level.

13 TAPE 2 indicator

Lights when the TAPE 2 monitor is on.

14 Character display

Shows current mode, status, etc.

15 TUNER indicators

MONO : Lights when the tuner is set to receive FM broadcasts and when selected MPX mode.

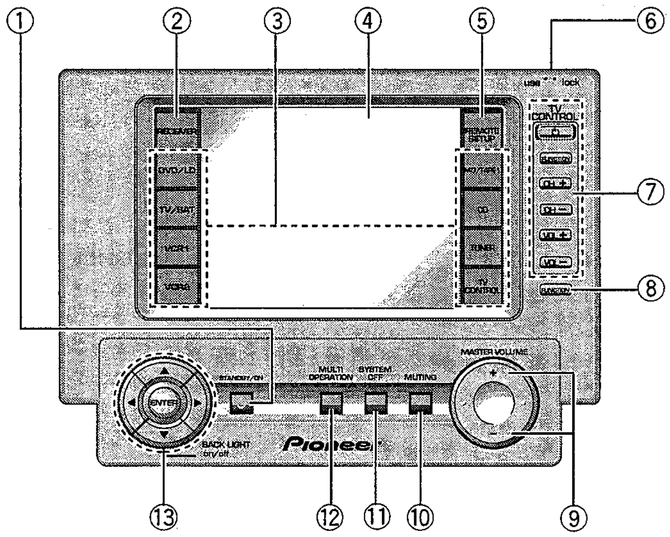
STEREO : Lights when a FM stereo broadcast is received in the auto stereo mode.

TUNED : Lights when a broadcast is received.

AM/FM : Light to indicate the current band (FM or AM).

■ Remote Control Unit (VSX-39TX)

These pages describe the buttons on the remote control used to operate the receiver. Since the screen on this LCD remote control changes when you select a different function, explanations of buttons for controlling other components/functions can be found in the sections for those components/functions.



memo

To turn on the remote control touch it anywhere on the screen.

① ⏻ STANDBY/ON button

Press to turn power of the receiver on or to STANDBY (off).

② RECEIVER button

Press to switch the remote control into receiver mode or to get receiver screens.

③ Function buttons

These buttons are the basic controls that switch the mode of the receiver and allow you to control your other components.

DVD/LD: Press to switch the remote control into DVD/LD mode.

TV/SAT: Press to switch the remote control into TV/SAT (satellite tuner) mode.

VCR 1: Press to switch the remote control into VCR 1 mode.

VCR 2: Press to switch the remote control into VCR 2 mode.

MD/TAPE 1: Press to switch the remote control into MD/TAPE 1 mode.

CD: Press to switch the remote control into CD mode.

TUNER: Press to switch the remote control into TUNER mode.

TV CONTROL: Press so that the remote control can operate the TV CONTROL commands.

④ REMOTE CONTROL screen

⑤ REMOTE SETUP button.

Use to customize the remote control functions and the remote control itself. (See "Setting Up Remote Control of Other Components" starting on)

⑥ LOCK switch

Use to lock the remote control so it doesn't turn on by accident. For normal use keep it set in USE.

⑦ TV CONTROL buttons

The following buttons are used to control the TV only and can be used once they are preset to control your TV.

⏻ STANDBY/ON : Press to turn the power of the TV on/off.

FUNCTION : Press TV FUNC to select the TV for remote control operation.

CH +/– : Use these buttons to change the channel of the TV.

VOL +/– : Press to control the volume of the TV.

⑧ FUNCTION button

Press to select a source. The button will cycle through all the possible sources.

⑨ MASTER VOLUME button

Use to raise or lower the volume of the receiver.

⑩ MUTING button

Press to mute or restore the volume.

⑪ SYSTEM OFF button

This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will be turned off.

For example : If you programmed power off in the SYSTEM OFF settings for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⑫ MULTI OPERATION button

Use this button to start the MULTI OPERATION mode. for how to program and use the MULTI OPERATION mode.

⑬ ▲/▼(BACK LIGHT on/off)/◄/►/ENTER buttons

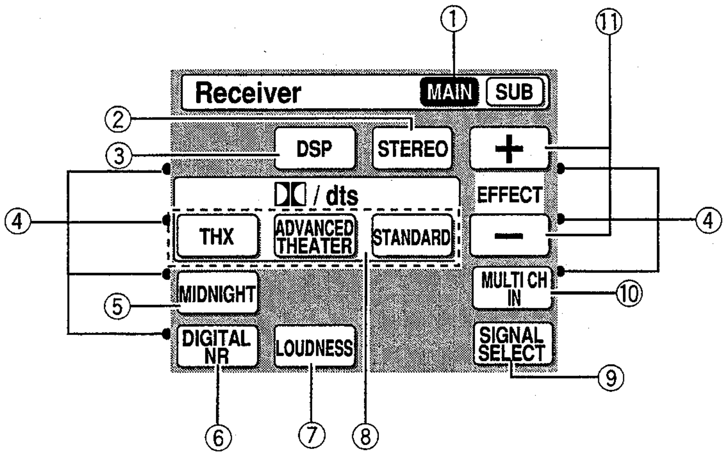
These buttons can be used for a variety of operations. In the SYSTEM SETUP menu, the ▲/▼ buttons can be used to adjust CHANNEL DELAY or CHANNEL LEVEL.

The ▲/▼ buttons, pressed simultaneously, can be use to lock or unlock a setting .

These buttons are also used to control the DVD menu for the DVD remote control screen. If the remote control is in the REMOTE SETUP mode you can use the ▼ button to adjust the BACKLIGHT.

Basic Receiver LCD Screens

Receiver MAIN Screen



① **Receiver MAIN button**
Press this button to select the main receiver screen (above) when the remote control is on the sub receiver screen.

② **STEREO button**
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER or THX CINEMA) or toggles between DIRECT and STEREO mode.

③ **DSP button**
Press repeatedly to select a DSP sound mode.

④ **DIRECT FUNCTION on/off indicator**

These dots indicate weather the DIRECT FUNCTION is on or off for the function (DVD/LD, CD, etc.) they point to.

⑤ **MIDNIGHT button**
Switches the MIDNIGHT LISTENING mode on or off (for all modes except THX and MULTI CH IN).

⑥ **DIGITAL NR button**
Switches the DIGITAL NR on or off (for all modes except THX and MULTI CH IN).

⑦ **LOUDNESS button**
Switches the LOUDNESS mode on or off (for all modes except THX and MULTI CH IN).

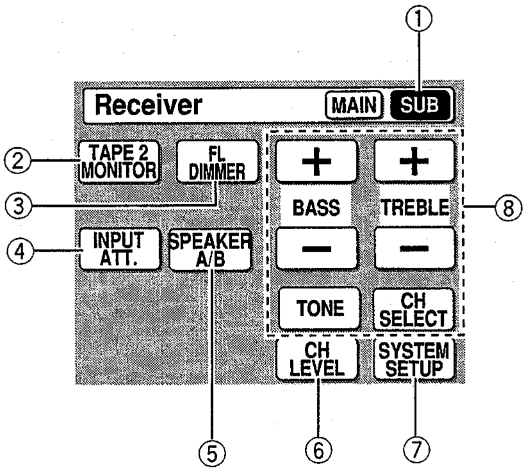
⑧ **DD/dts buttons**
Press these buttons to put the receiver in the selected surround sound mode. For more information on the modes.

⑨ **SIGNAL SELECT button**
Press SIGNAL SELECT repeatedly to select one of the following:
ANALOG : To select an analog signal.
DIGITAL : To select a digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1, VCR 1, VCR 2).
AC-3 RF : To select an DD RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).
AUTO : This is the default. If there are analog, digital and DD RF signals input, the receiver automatically selects the DD RF signal. If there are analog and digital signals input the digital will be selected.

⑩ **MULTI CH IN button**
Use to hook up an external component that can decode other types of signals and input them into the VSX-39TX.

⑪ **EFFECT +/– button**
Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/ Advanced Theater mode you want (by pressing the DSP/ Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

Receiver SUB Screen



① Receiver MAIN button

Press this button to select the main receiver screen (above) when the remote control is on the sub receiver screen.

② STEREO button

Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER or THX CINEMA) or toggles between DIRECT and STEREO mode.

③ DSP button

Press repeatedly to select a DSP sound mode.

④ DIRECT FUNCTION on/off indicator

These dots indicate weather the DIRECT FUNCTION is on or off for the function (DVD/LD, CD, etc.) they point to.

⑤ MIDNIGHT button

Switches the MIDNIGHT LISTENING mode on or off (for all modes except THX and MULTI CH IN).

⑥ DIGITAL NR button

Switches the DIGITAL NR on or off (for all modes except THX and MULTI CH IN).

⑦ LOUDNESS button

Switches the LOUDNESS mode on or off (for all modes except THX and MULTI CH IN).

⑧ DD/dts buttons

Press these buttons to put the receiver in the selected surround sound mode. For more information on the modes .

⑨ SIGNAL SELECT button

Press SIGNAL SELECT repeatedly to select one of the following:
ANALOG : To select an analog signal.
DIGITAL : To select a digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1, VCR 1, VCR 2).
AC-3 RF : To select an DD RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).
AUTO : This is the default. If there are analog, digital and DD RF signals input, the receiver automatically selects the DD RF signal. If there are analog and digital signals input the digital will be selected.

⑩ MULTI CH IN button

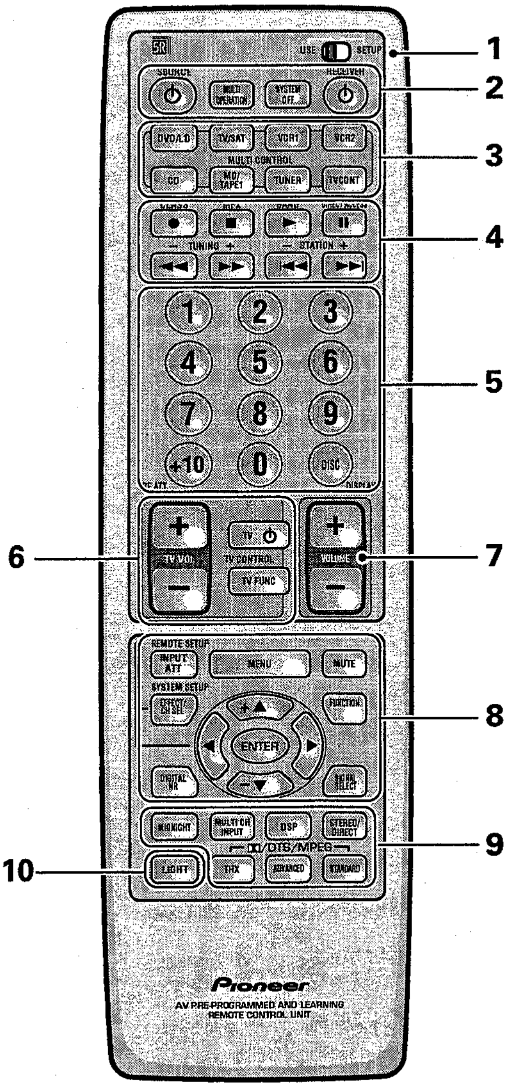
Use to hook up an external component that can decode other types of signals and input them into the VSX-39TX.

⑪ EFFECT +/– button

Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/Advanced Theater mode you want (by pressing the DSP/Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

■ Remote Control Unit (VSX-37TX/VSX-36TX/VSX-D909S)

These pages describe the buttons on the remote control used to operate the receiver.


1
2
3
4
5
6
7
8
9
10
USE
SETUP
SOURCE
MULTI OPERATION
SYSTEM OFF
RECEIVER
DVD/LD
TV/SAT
VCR1
VCR2
MULTI CONTROL
CD
MD/TAPE1
TUNER
TVCONT
TUNING
STATION
1
2
3
4
5
6
7
8
9
+10
0
DISC
ATT
TV VOL
TV CONTROL
TV FUNC
VOLUME
REMOTE SETUP
INPUT ATT
MENU
MUTE
SYSTEM SETUP
ENTER
MIDNIGHT
MULTI CH INPUT
DSP
STEREO DIRECT
DD/DTS/MPEG
LIGHT
THX
ADVANCED
STANDARD
Pioneer
AV PRE-PROGRAMMED AND LEARNING REMOTE CONTROL UNIT

1 **USE/SETUP slide switch**
Use to put the remote into receiver SETUP, or receiver USE mode.

2 **⏻ SOURCE button**
Use to turn on the power of your other components after you have recalled or taught the signals to this remote control.

MULTI OPERATION button
Use this button to start the MULTI OPERATION mode. for how to program and use the MULTI OPERATION mode.

SYSTEM OFF button
This button turns off components in two ways. First, when pressed it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will also be turned off .

For example : If you programmed power on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products.

⏻ RECEIVER button
Press to turn power of the receiver on or to STANDBY (off).

3 **MULTI CONTROL buttons**
Use these to select a source and the corresponding remote operation mode.

For example, pressing TUNER selects the built in tuner and sets the remote operation to the tuner functions.

4 **Component Control buttons**
Use to control specific components, like a CD player or DVD player, after you have programmed the remote control to do these operations and the remote is put in that operation mode.

5 **Number buttons**
These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD and tuner operations.

6 **TV CONTROL buttons**
The following buttons are used to control the TV only and can be used no matter what function the remote control is set to.

TV ⏻ button – Press to turn the power of the TV on/off.

TV FUNC button – Press TV FUNC to select the TV for remote control operation.

TV VOL +/- button – Use to adjust the TV volume.

7 **MASTER VOLUME buttons**
Use to raise or lower the volume of the receiver.

8 **INPUT ATT button (when USE mode is selected)**
Use to lower the input level of an analog signal that is too powerful, thus causing the sound to distort (the OVERLOAD indicator will light).

REMOTE SETUP button (when SETUP mode is selected)
Use to customize the remote control functions and the remote control itself. (See "Setting Up the Remote Control to Control Other Components" starting on , "Multi Operation" starting on)

MENU button
Use to get the various menus for your TV or DTV.

MUTING button
Press to mute or restore the volume.

EFFECT/CH SEL (when USE mode is selected) button
EFFECT – Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP/Advanced Theater you want (by pressing the DSP/Advanced Theater button until you get the mode) and then increase or decrease the amount of effect.

CH SEL – You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust.

SYSTEM SET UP button (when SETUP mode is selected)
Use to set up the speaker and sound systems. For more information see "Setting up for Surround Sound" starting on .

FUNCTION button
Press to select a source. The button will cycle through all the possible sources.

▲(+)/▼(–)/◄/►/ENTER buttons
Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other set up features . Specific use of these buttons is described in conjunction with the operations they perform. For more information see each individual section.

DIGITAL NR button
Press to switch Digital NR on or off.

SIGNAL SELECT button
Press SIGNAL SELECT repeatedly to select one of the following:

ANALOG – Analog signal.

DIGITAL – Digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1/CD-R, VCR 1/DVR, VCR 2).

AC-3 RF (VSX-37TX only) – DD RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).

AUTO – This is the default. If there are both analog, digital, DD RF input signals, the receiver automatically selects the best possible signal.

9 **MIDNIGHT button**
Switches the MIDNIGHT mode on or off.

MULTI CH INPUT button
Press to switch to MULTI CH IN mode.

DSP button
Press repeatedly to select a DSP sound mode.

STEREO/DIRECT button
Switches the receiver into STEREO mode if it was in a different sound mode (like ADVANCED THEATER) or toggles between DIRECT and STEREO mode. For more on STEREO mode .

DIRECT playback bypasses the tone controls and channel level for the most accurate reproduction of a program source.

LIGHT button
Press to light the remote control buttons.

DD /DTS buttons
Press these buttons to put the receiver in the selected sound mode. For more information on the sound modes.

8.2 SPECIFICATIONS

VSX-39TX :

Continuous average power output of 120 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Audio Section

Continuous Power Output
  Front .... 120 W + 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
  Center .... 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
  Rear .... 120 W + 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)

Input (Sensitivity/Impedance)
  PHONO MM ....4.7 mV/47 kΩ
  VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD
  MD/TAPE 1/CD-R, TAPE 2 ....335 mV/47 kΩ

Phono Overload level (T.H.D.0.1 %, 1 kHz)
  PHONO MM .... 120 mV

Frequency Response
  PHONO MM .... 20 Hz to 20,000 Hz ± 0.3 dB
  VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD
  MD/TAPE 1/CD-R, TAPE 2 ......5 Hz to 100,000 Hz dB

Output (Level/Impedance)
  VCR 1/DVR REC, VCR 2 REC, MD/TAPE 1/CD-R REC
  TAPE 2 REC .... 335 mV/2.2 kΩ

Tone Control
  BASS .... ± 6 dB (100 Hz)
  TREBLE .... ± 6 dB (10 kHz)
  LOUDNESS .... +10 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)
  PHONO MM .... 80 dB
  VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD
  MD/TAPE 1, TAPE 2 .... 101 dB
  MULTI CHANNEL IN ..... 105 dB(Channel Level:Bypass)

Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
  PHONO MM .... 80 dB
  VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD
  MD/TAPE 1/CD-R, TAPE 2 .... 83 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

Maintenance of External Surfaces

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

Video Section

Input (Sensitivity) .... 1 Vp-p/75 Ω
Output (Level/Impedance) .... 1 Vp-p/75 Ω
Signal-to-Noise Ratio .... 65 dB
Frequency Response .... 5 Hz to 10 MHz dB

Component Video Section

Input (Sensitivity) .... 1 Vp-p/75 Ω
Output (Level/Impedance) .... 1 Vp-p/75 Ω
Signal-to-Noise Ratio .... 65 dB

FM Tuner Section

Frequency Range .... 87.5 MHz to 108 MHz
Usable Sensitivity......... Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity.........................Mono: 20.2 dBf
  Stereo: 38.6 dBf
Signal-to-Noise Ratio .... Mono: 73 dB (at 85 dBf)
  Stereo: 70 dB (at 85 dBf)
Distortion .... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity .... 60 dB (400 kHz)
Stereo Separation .... 40 dB (1 kHz)
Frequency Response..................30 Hz to 15 kHz (± 1) dB
Antenna Input ....75 Ω unbalanced

AM Tuner Section

Frequency Range .... 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna) .... 350 μV/m
Selectivity .... 25 dB
Signal-to-Noise Ratio .... 50 dB
Antenna .... Loop antenna

Miscellaneous

Power Requirements .... AC 120 V, 60 Hz
Power Consumption .... 460 W, 630 VA
Power Consumption in Standby mode .... 1.0 W
AC Outlet
  SWITCHED (x2) .... Total 100 W (0.8 A) MAX
  UNSWITCHED .... 100 W (0.8 A) MAX
Dimensions .... 457 (W) x 174 (H) x 470 (D) mm
  (17-15/16 (W) x 6-13/16 (H) x 18-1/2 (D) in.)
Weight (without package) .... 17.2 kg (37 lb 15 oz)

Furnished Parts

FM wire Antenna 1
AM Loop Antenna 1
"AA" IEC LR6 batteries 4
Remote Control Unit 1
Touch Pen 1
Cushion for Remote 4
Operating Instructions...1

NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.

Amplifier Section

VSX-37TX :

Continuous average power output of 120 watts* per channel, min., at 6 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

VSX-36TX:

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

VSX-37TX :

Continuous Power Output	
Front	120 W + 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Center	120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)
Rear	120 W + 120 W (20 Hz-20 kHz, 0.09 %, 6 Ω)

VSX-36TX :

Continuous Power Output	
Front	100 W + 100 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Center	100 W (20 Hz-20 kHz, 0.09 %, 8 Ω)
Rear	100 W + 100 W (20 Hz-20 kHz, 0.09 %, 8 Ω)

Audio Section

Input (Sensitivity/Impedance)	
PHONO MM	4.7 mV/47 kΩ
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	335 mV/47 kΩ
Phono Overload level (T.H.D.0.1 %, 1kHz)	
PHONO MM	120 mV
Frequency Response	
PHONO MM	20 Hz to 20,000 Hz ± 0.3 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	5 Hz to 100,000 Hz dB
Output (Level/Impedance)	
VCR 1/DVR REC, VCR 2 REC, MD/TAPE 1/CD-R REC TAPE 2 REC	335 mV/2.2 kΩ
Tone Control	
BASS	± 6 dB (100 Hz)
TREBLE	± 6 dB (10 kHz)
LOUDNESS	+10 dB (100 Hz/10 kHz)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1CD-R, TAPE 2	101 dB
MULTI CHANNEL IN	105 dB(Channel Level:Bypass)
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
PHONO MM	80 dB
VCR 1/DVR, VCR 2, DVD/LD, TV/SAT, VIDEO, CD MD/TAPE 1/CD-R, TAPE 2	83 dB

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

** *Measured by Audio Spectrum Analyzer.*

Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 10 MHz dB

Component Video Section

Input (Sensitivity)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz (± 1) dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
VSX-37TX :	
Power Consumption	460 W, 630 VA
Power Consumption in Standby mode	1.0 W
AC Outlet	
SWITCHED (x2)	Total 100 W (0.8 A) MAX
UNSWITCHED	100 W (0.8 A) MAX
Dimensions	420 (W) x 173 (H) x 470 (D) mm (16-9/16 (W) x 6-13/16 (H) x 18-1/2 (D) in.)
Weight (without package)	15.2 kg (33 lb 9 oz)
VSX-36TX :	
Power Consumption	400 W, 550 VA
Power Consumption in Standby mode	1.0 W
AC Outlet	
SWITCHED (x2)	Total 100 W (0.8 A) MAX
UNSWITCHED	100 W (0.8 A) MAX
Dimensions	420 (W) x 173 (H) x 470 (D) mm (16-9/16 (W) x 6-13/16 (H) x 18-1/2 (D) in.)
Weight (without package)	14.4 kg (31 lb 13 oz)

Furnished Parts

FM wire Antenna	1
AM loop Antenna	1
"AA" IEC LR6 batteries	2
Remote Control Unit	1
Operating Instructions	1

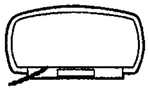
NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

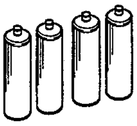
VSX-39TX, VSX-37TX, VSX-36TX, VSX-D909S

Accessories (VSX-39TX)

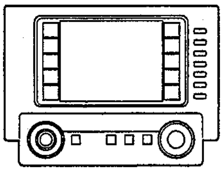
FM wire antenna
(ADH7007)



AM loop antenna
(ATB7009)



“AA” IEC LR6
batteries x 4



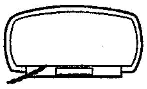
Remote control unit
(Remocon39 : AXD7254)

Touch pen
(E-AA1445-001)

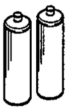
Cushion for
Remote x 4
(AXG7080)

Accessories (VSX-37TX/VSX-36TX/VSX-D909S)

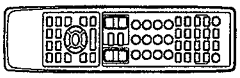
FM wire antenna
(ADH7007)



AM loop antenna
(ATB7009)



“AA” IEC LR6 batteries x 2



Remote control unit
(Remocon37 : AXD7257)
VSX-37TX/VSX-36TX
(Remocon909S : AXD7278)
VSX-D909S

Printed by: Schaltungsdienst Lange, Berlin (GERMANY)